

# Re: SPAN: TTC analysis

---

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Thursday, Jun 24, 8:22  
AM

To: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu, **cayata@mgh.harvard.edu** |  
CAYATA@mgh.harvard.edu

Cc: **Jessica Lamb** | lambj@usc.edu

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

---

From: **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu

Thursday, Jun 24, 8:25 AM

To: **Karisma Nagarkatti (USC)** | nagarkat@usc.edu

Cc: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu, **Jessica Lamb (USC)** | lambj@usc.edu

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with an online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ryan Cabeen** | ryan.cabeen@loni.usc.edu

Thursday, Jun 24, 12:52  
PM

To: **Karisma Nagarkatti (USC)** | nagarkat@usc.edu, **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu

Cc: **Jessica Lamb (USC)** | [jlambj@usc.edu](mailto:jlambj@usc.edu)

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

[www.spinhub.io](http://www.spinhub.io)

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need to work together on this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with an online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu

Thursday, Jun 24, 12:54 PM

To: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Cc: **Karisma Nagarkatti (USC)** | nagarkat@usc.edu, **Jessica Lamb (USC)** | lambj@usc.edu

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the measurements.

They should send a name and email address.

Let me know if issues...

Thanks!

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

[www.spinhub.io](http://www.spinhub.io)

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California

2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham

Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Thursday, Jun 24, 1:20 PM

To: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Thank you very much for your help Ryan! The CC greatly appreciates your efforts!

Thank you,  
Karisma

---

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu To: **Karisma A Nagarkatti** | nagarkat@usc.edu Thursday, Jun 24, 12:52 PM

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

[www.spinhub.io](http://www.spinhub.io)

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California

2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham



Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu

Monday, Jun 28, 4:54 AM

To: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Ryan,

Can we find a time this week to go over what has been uploaded for rat, aged and obese mice? We need to bring together the MRI group next week to vet the stage 2 protocol. All you need to do is process the pilot aged and obese mice MRI using the automated segmentation, and check the quality of rat MRIs for any issues that might get in the way of automated segmentation when you retrain the neural net for rats.

Thanks,

C

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

[www.spinhub.io](http://www.spinhub.io)

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are

cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To*

*quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Monday, Jun 28, 8:57 AM

To: **Ayata, Cenk, M.D.** | [CAYATA@mgh.harvard.edu](mailto:CAYATA@mgh.harvard.edu)

Sounds good, maybe sometime in these windows?

Wed noon-2pm eastern

Wed 3-6pm eastern

Fri noon-6pm eastern

I've processed the cases on the IDA as of last week, and I'll see if there are any more recent cases up since then.

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
[2025 Zonal Ave.](#)

[Los Angeles, CA 90033](#)

Tel: (323) 44-BRAIN

Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)

Web: [cabeen.io](http://cabeen.io)

From: **CAYATA@mgh.harvard.edu**

Monday, Jun 28, 4:54 AM

Ryan,  
Can we find a time this week to go over what has been uploaded for rat, aged and obese mice? We need to bring together the MRI group next week to vet the stage 2 protocol. All you need to do is process the pilot aged and obese mice MRI using the automated segmentation, and check the quality of rat MRIs for any issues that might get in the way of automated segmentation when you retrain the neural net for rats.

Thanks,  
C

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

[www.spinhub.io](http://www.spinhub.io)

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the

CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

Many thanks,

The CC"

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu

Monday, Jun 28, 9:03 AM

To: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Wed, noon to 2p est is great. Please send link?

tx

c

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Monday, Jun 28, 11:57 AM

**External Email - Use Caution**

Sounds good, maybe sometime in these windows?

Wed noon-2pm eastern

Wed 3-6pm eastern

Fri noon-6pm eastern

I've processed the cases on the IDA as of last week, and I'll see if there are any more recent cases up since then.

Ryan P. Cabeen, PhD

Chan Zuckerberg Imaging Scientist

Assistant Professor of Research Neurology

Laboratory of Neuro Imaging

USC Stevens Neuroimaging and Informatics Institute

Keck School of Medicine of USC

University of Southern California

[2025 Zonal Ave.](#)

[Los Angeles, CA 90033](#)

Tel: (323) 44-BRAIN

Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)

Web: <http://cabeen.io>

From: **CAYATA@mgh.harvard.edu**

Monday, Jun 28, 4:54 AM

Ryan,

Can we find a time this week to go over what has been uploaded for rat, aged and obese mice? We need to bring together the MRI group next week to vet the stage 2 protocol. All you need to do is process the pilot aged and obese mice MRI using the automated segmentation, and check the quality of rat MRIs for any issues that might get in the way of automated segmentation when you retrain the neural net for rats.

Thanks,

C

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>  
<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM



**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with an online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ryan Cabeen** | ryan.cabeen@loni.usc.edu

Monday, Jun 28, 9:06 AM

To: **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu

Great, sent a calendar invite, and here's the zoom:

Topic: Ryan Cabeen's Zoom Meeting

Time: Jun 30, 2021 12:00 PM Eastern Time (US and Canada)

Join Zoom Meeting

[usc.zoom.us/j/3214616632](https://usc.zoom.us/j/3214616632)

Meeting ID: 321 461 6632

One tap mobile

+16699006833,,3214616632# US (San Jose)

+12532158782,,3214616632# US (Tacoma)

Ryan P. Cabeen, PhD

Chan Zuckerberg Imaging Scientist

Assistant Professor of Research Neurology

Laboratory of Neuro Imaging

USC Stevens Neuroimaging and Informatics Institute

Keck School of Medicine of USC

University of Southern California

2025 Zonal Ave.

Los Angeles, CA 90033

Tel: (323) 44-BRAIN

Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)

Web: [cabeen.io](http://cabeen.io)

[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Monday, Jun 28, 9:03 AM

Wed, noon to 2p est is great. Please send link?

tx

c

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Monday, Jun 28, 11:57 AM

**External Email - Use Caution**

Sounds good, maybe sometime in these windows?

Wed noon-2pm eastern

Wed 3-6pm eastern

Fri noon-6pm eastern

I've processed the cases on the IDA as of last week, and I'll see if there are any more recent cases up since then.

Ryan P. Cabeen, PhD

Chan Zuckerberg Imaging Scientist

Assistant Professor of Research Neurology

Laboratory of Neuro Imaging

USC Stevens Neuroimaging and Informatics Institute

Keck School of Medicine of USC

University of Southern California

[2025 Zonal Ave.](#)

[Los Angeles, CA 90033](#)

Tel: (323) 44-BRAIN

Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)

Web: <http://cabeen.io>

From: **CAYATA@mgh.harvard.edu**

Monday, Jun 28, 4:54 AM

Ryan,

Can we find a time this week to go over what has been uploaded for rat, aged and obese mice? We need to bring together the MRI group next week to vet the stage 2 protocol. All you need to do is process the pilot aged and obese mice MRI using the automated segmentation, and check the quality of rat MRIs for any issues that might get in the way of automated segmentation when you retrain the neural net for rats.

Thanks,

C

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>  
<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ryan Cabeen** | ryan.cabeen@loni.usc.edu

Tuesday, Jun 29, 4:34 PM

To: **Karisma Nagarkatti (USC)** | nagarkat@usc.edu

Cc: **Jessica Lamb (USC)** | [lambj@usc.edu](mailto:lambj@usc.edu), **Ayata, Cenk, M.D.** | [CAYATA@mgh.harvard.edu](mailto:CAYATA@mgh.harvard.edu)

Hi all,

Just wanted to follow up on this — I have a test site up and running, now with a training video, some fixes, and a system for archiving the annotations. Here's an example that is live:

[www.spinhub.io/span-colab-72950](http://www.spinhub.io/span-colab-72950)

username: span

password: Epsmb6tBCURMGCIW

So we should be ready to share this with the sites soon, but I think the last thing we need is a final test run. Perhaps one of you could try loading it up and drawing on a few images and letting me know if it seems to work? Then, I'll check to see that everything was archived properly on my end. It shouldn't take more than a few minutes, and it would be very helpful!

Thanks,

Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 12:54 PM

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the measurements. They should send a name and email address.

Let me know if issues...

Thanks!

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

[www.spinhub.io](http://www.spinhub.io)

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)

Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgm.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.



Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu

Tuesday, Jun 29, 4:36 PM

To: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Cc: **Karisma Nagarkatti (USC)** | nagarkat@usc.edu, **Jessica Lamb (USC)** | lambj@usc.edu

Thanks, Ryan, I will try and let you know.

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 7:34 PM

**External Email - Use Caution**

Hi all,

Just wanted to follow up on this — I have a test site up and running, now with a training video, some fixes, and a system for archiving the annotations. Here's an example that is live:

[www.spinhub.io/span-colab-72950](http://www.spinhub.io/span-colab-72950)

username: span

password: Epsmb6tBCURMGCIW

So we should be ready to share this with the sites soon, but I think the last thing we need is a final test run. Perhaps one of you could try loading it up and drawing on a few images and letting me know if it seems to work? Then, I'll check to see that everything was archived properly on my end. It shouldn't take more than a few minutes, and it would be very helpful!

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 12:54 PM

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the measurements. They should send a name and email address.

Let me know if issues...

Thanks!

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>  
<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with an online tool to outline some TTC scans. Please let me know when this is available and I

will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu

Tuesday, Jun 29, 5:18 PM

To: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Cc: **Karisma Nagarkatti (USC)** | nagarkat@usc.edu, **Jessica Lamb (USC)** | lambj@usc.edu

Works, Ryan. Would you please write an email template for Karisma to distribute to the 6 selected raters?

Great job, thanks,

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 7:34 PM

**External Email - Use Caution**

Hi all,

Just wanted to follow up on this — I have a test site up and running, now with a training video, some fixes, and a system for archiving the annotations. Here's an example that is live:

[www.spinhub.io/span-colab-72950](http://www.spinhub.io/span-colab-72950)

username: span

password: Epsmb6tBCURMGCIW

So we should be ready to share this with the sites soon, but I think the last thing we need is a final test run. Perhaps one of you could try loading it up and drawing on a few images and letting me know if it seems to work? Then, I'll check to see that everything was archived properly on my end. It shouldn't take more than a few minutes, and it would be very helpful!

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA**@mgh.harvard.edu

Thursday, Jun 24, 12:54 PM

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the measurements. They should send a name and email address.

Let me know if issues...

Thanks!

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD

Chan Zuckerberg Imaging Scientist

Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>  
<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with an online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Wednesday, Jun 30, 9:27 PM

To: **Ayata, Cenk, M.D.** | [CAYATA@mgh.harvard.edu](mailto:CAYATA@mgh.harvard.edu)

Will do, and I'll wait for those additional MGH cases so they are included

Ryan P. Cabeen, PhD  
Postdoctoral Scholar - Chan Zuckerberg Imaging Scientist  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
[2025 Zonal Ave.](#)  
[Los Angeles, CA 90033](#)  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)

---

From: **CAYATA@mgh.harvard.edu**

Tuesday, Jun 29, 5:18 PM

Works, Ryan. Would you please write an email template for Karisma to distribute to the 6 selected raters?  
Great job, thanks,  
Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over



unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 7:34 PM

**External Email - Use Caution**

Hi all,

Just wanted to follow up on this — I have a test site up and running, now with a training video, some fixes, and a system for archiving the annotations. Here's an example that is live:

[www.spinhub.io/span-colab-72950](http://www.spinhub.io/span-colab-72950)

username: span

password: Epsmb6tBCURMGCIW

So we should be ready to share this with the sites soon, but I think the last thing we need is a final test run. Perhaps one of you could try loading it up and drawing on a few images and letting me know if it seems to work? Then, I'll check to see that everything was archived properly on my end. It shouldn't take more than a few minutes, and it would be very helpful!

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 12:54 PM

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the measurements. They should send a name and email address.

Let me know if issues...

Thanks!

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD

Chan Zuckerberg Imaging Scientist

Assistant Professor of Research Neurology

Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>  
<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,

Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu

Thursday, Jul 1, 3:01 AM

To: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

OK. They were sent to Karisma yesterday.

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Thursday, Jul 1, 12:27 AM

**External Email - Use Caution**

Will do, and I'll wait for those additional MGH cases so they are included

Ryan P. Cabeen, PhD  
Postdoctoral Scholar - Chan Zuckerberg Imaging Scientist  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
[2025 Zonal Ave.](#)  
[Los Angeles, CA 90033](#)

Tel: (323) 44-BRAIN

Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)

Web: <http://cabeen.io>

From: **CAYATA@mgm.harvard.edu**

Tuesday, Jun 29, 5:18 PM

Works, Ryan. Would you please write an email template for Karisma to distribute to the 6 selected raters?

Great job, thanks,

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Tuesday, Jun 29, 7:34 PM

**External Email - Use Caution**

Hi all,

Just wanted to follow up on this — I have a test site up and running, now with a training video, some fixes, and a system for archiving the annotations. Here's an example that is live:

<http://www.spinhub.io/span-colab-72950>

username: span

password: Epsmb6tBCURMGCIW

So we should be ready to share this with the sites soon, but I think the last thing we need is a final test run. Perhaps one of you could try loading it up and drawing on a few images and letting me know if it seems to work? Then, I'll check to see that everything was archived properly on my end. It shouldn't take more than a few minutes, and it would be very helpful!

Thanks,

Ryan

Ryan P. Cabeen, PhD

Chan Zuckerberg Imaging Scientist

Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>  
<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 12:54 PM

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the measurements. They should send a name and email address.

Let me know if issues...

Thanks!

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>  
<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft

email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ryan Cabeen** | ryan.cabeen@loni.usc.edu

Tuesday, Jul 6, 10:17 PM

To: **Karisma Nagarkatti (USC)** | nagarkat@usc.edu

Cc: **Jessica Lamb (USC)** | lambj@usc.edu, **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu

Hi Karisma,

Dr Ayata mentioned there might be more cases from MGH to add to the TTC analysis — if you have those handy, can they perhaps be added to the google drive? (The only ones there now are from the 2020 pilot)

Thanks,  
Ryan



Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Tuesday, Jun 29, 5:18 PM

Works, Ryan. Would you please write an email template for Karisma to distribute to the 6 selected raters?  
Great job, thanks,  
Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Tuesday, Jun 29, 7:34 PM

**External Email - Use Caution**

Hi all,

Just wanted to follow up on this — I have a test site up and running, now with a training video, some fixes, and a system for archiving the annotations. Here's an example that is live:

[www.spinhub.io/span-colab-72950](http://www.spinhub.io/span-colab-72950)

username: span

password: Epsmb6tBCURMGCIW

So we should be ready to share this with the sites soon, but I think the last thing we need is a final test run. Perhaps one of you could try loading it up and drawing on a few images and letting me know if it seems to work? Then, I'll check to see that everything was archived properly on my end. It shouldn't take more than a few minutes, and it would be very helpful!

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 12:54 PM

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the measurements. They should send a name and email address.

Let me know if issues...

Thanks!

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>  
<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Wednesday, Jul 7, 8:36 AM

To: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Cc: **Jessica Lamb** | lambj@usc.edu, **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu

Hi Ryan,

I uploaded the TTC data that was sent by Dr. Qin on 6/30. Please see link attached [drive.google.com/drive/folders/10zV1CcL0QeI15qYKA4YgN\\_J5mdw1x-F9?usp=sharing](https://drive.google.com/drive/folders/10zV1CcL0QeI15qYKA4YgN_J5mdw1x-F9?usp=sharing)

Let me know if you need anything else

thanks

Karisma

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu To: **Karisma A Nagarkatti** | nagarkat@usc.edu Tuesday, Jul 6, 10:17 PM

Hi Karisma,

Dr Ayata mentioned there might be more cases from MGH to add to the TTC analysis — if you have those handy, can they perhaps be added to the google drive? (The only ones there now are from the 2020 pilot)

Thanks,

Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Tuesday, Jun 29, 5:18 PM

Works, Ryan. Would you please write an email template for Karisma to distribute to the 6 selected raters?

Great job, thanks,

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham

Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 7:34 PM

**External Email - Use Caution**

Hi all,

Just wanted to follow up on this — I have a test site up and running, now with a training video, some fixes, and a system for archiving the annotations. Here's an example that is live:

[www.spinhub.io/span-colab-72950](http://www.spinhub.io/span-colab-72950)

username: span

password: Epsmb6tBCURMGCIW

So we should be ready to share this with the sites soon, but I think the last thing we need is a final test run. Perhaps one of you could try loading it up and drawing on a few images and letting me know if it seems to work? Then, I'll check to see that everything was archived properly on my end. It shouldn't take more than a few minutes, and it would be very helpful!

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 12:54 PM

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the measurements. They should send a name and email address.

Let me know if issues...

Thanks!

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Thursday, Jun 24, 3:52 PM

#### External Email - Use Caution

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist

Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>  
<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*



Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Wednesday, Jul 7, 10:20 AM

To: **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu, **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Cc: **Jessica Lamb** | lambj@usc.edu

Hi Ryan,

Is this ready to distribute? Are you able to send a template email with instructions for the investigators. I received the final list from the site investigators who will be analyzing using the online tool and I can distribute once this is ready to send.

Thank you for your help, we really appreciate it!

Thanks,

Karisma

---

From: **Ayata** |  
CAYATA@mgh.harvard.edu

To: **Ryan.Cabeen@loni.usc.edu** |  
Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 5:17  
PM

Works, Ryan. Would you please write an email template for Karisma to distribute to the 6 selected raters?

Great job, thanks,

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-

mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 7:34 PM

**External Email - Use Caution**

Hi all,

Just wanted to follow up on this — I have a test site up and running, now with a training video, some fixes, and a system for archiving the annotations. Here's an example that is live:

[www.spinhub.io/span-colab-72950](http://www.spinhub.io/span-colab-72950)

username: span

password: Epsmb6tBCURMGCIW

So we should be ready to share this with the sites soon, but I think the last thing we need is a final test run. Perhaps one of you could try loading it up and drawing on a few images and letting me know if it seems to work? Then, I'll check to see that everything was archived properly on my end. It shouldn't take more than a few minutes, and it would be very helpful!

Thanks,

Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgm.harvard.edu**

Thursday, Jun 24, 12:54 PM

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the

measurements. They should send a name and email address.

Let me know if issues...

Thanks!

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD

Chan Zuckerberg Imaging Scientist

Assistant Professor of Research Neurology

Laboratory of Neuro Imaging

USC Stevens Neuroimaging and Informatics Institute

Keck School of Medicine of USC

University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>  
<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this

e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Wednesday, Jul 7, 10:44 AM

To: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Cc: **Ayata, Cenk, M.D.** | [CAYATA@mgh.harvard.edu](mailto:CAYATA@mgh.harvard.edu), **Jessica Lamb** | [lambj@usc.edu](mailto:lambj@usc.edu)

Thanks Karisma, by any cognate are there images as well? I only see the email and a spreadsheet of metrics

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
[2025 Zonal Ave.](#)  
[Los Angeles, CA 90033](#)  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)

---

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Wednesday, Jul 7, 10:20 AM

Hi Ryan,

Is this ready to distribute? Are you able to send a template email with instructions for the investigators. I received the final list from the site investigators who will be analyzing using the online tool and I can distribute once this is ready to send.

Thank you for your help, we really appreciate it!  
Thanks,

Karisma

From: **Ayata** |  
CAYATA@mgh.harvard.edu

To: **Ryan.Cabeen@loni.usc.edu** |  
Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 5:17  
PM

Works, Ryan. Would you please write an email template for Karisma to distribute to the 6 selected raters?

Great job, thanks,

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 7:34 PM

**External Email - Use Caution**

Hi all,

Just wanted to follow up on this — I have a test site up and running, now with a training video, some fixes, and a system for archiving the annotations. Here's an example that is live:

[www.spinhub.io/span-colab-72950](http://www.spinhub.io/span-colab-72950)

username: span

password: Epsmb6tBCURMGCIW

So we should be ready to share this with the sites soon, but I think the last thing we need is a final test run. Perhaps one of you could try loading it up and drawing on a few images and letting me know if it seems to work? Then, I'll check to see that everything was archived properly on my end. It shouldn't take more than a few minutes, and it would be very helpful!

Thanks,

Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist

Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 12:54 PM

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the measurements. They should send a name and email address.

Let me know if issues...

Thanks!

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>  
<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available



and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Wednesday, Jul 7, 10:46 AM

To: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Cc: **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu, **Jessica Lamb** | lambj@usc.edu

Hi Ryan,

Dr. Qin only sent me metrics but let me follow up with him, perhaps he forgot to include the images in the excel doc.

Thanks

Karisma

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu To: **Karisma A Nagarkatti** | nagarkat@usc.edu Wednesday, Jul 7, 10:44 AM

Thanks Karisma, by any cognate are there images as well? I only see the email and a spreadsheet of metrics

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Wednesday, Jul 7, 10:20 AM

Hi Ryan,

Is this ready to distribute? Are you able to send a template email with instructions for the investigators. I received the final list from the site investigators who will be analyzing using the online tool and I can distribute once this is ready to send.

Thank you for your help, we really appreciate it!

Thanks,  
Karisma

From: **Ayata** |  
CAYATA@mgh.harvard.edu

To: **Ryan.Cabeen@loni.usc.edu** |  
Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 5:17  
PM

Works, Ryan. Would you please write an email template for Karisma to distribute to the 6 selected raters?  
Great job, thanks,  
Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to

you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 7:34 PM

**External Email - Use Caution**

Hi all,

Just wanted to follow up on this — I have a test site up and running, now with a training video, some fixes, and a system for archiving the annotations. Here's an example that is live:

[www.spinhub.io/span-colab-72950](http://www.spinhub.io/span-colab-72950)

username: span

password: Epsmb6tBCURMGCIW

So we should be ready to share this with the sites soon, but I think the last thing we need is a final test run. Perhaps one of you could try loading it up and drawing on a few images and letting me know if it seems to work? Then, I'll check to see that everything was archived properly on my end. It shouldn't take more than a few minutes, and it would be very helpful!

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 12:54 PM

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the measurements. They should send a name and email address.

Let me know if issues...

Thanks!

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD

Chan Zuckerberg Imaging Scientist

Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>  
<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline>. If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Wednesday, Jul 7, 10:47 AM

To: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Cc: **Ayata, Cenk, M.D.** | [CAYATA@mgh.harvard.edu](mailto:CAYATA@mgh.harvard.edu), **Jessica Lamb** | [lambj@usc.edu](mailto:lambj@usc.edu)

Sounds good, thank you!

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
[2025 Zonal Ave.](#)  
[Los Angeles, CA 90033](#)  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)

---

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Wednesday, Jul 7, 10:46 AM

Hi Ryan,

Dr. Qin only sent me metrics but let me follow up with him, perhaps he forgot to include the images in the excel doc.

Thanks  
Karisma

From: **Ryan Cabeen** |  
Ryan.Cabeen@loni.usc.edu

To: **Karisma A Nagarkatti** |  
nagarkat@usc.edu

Wednesday, Jul 7, 10:44  
AM

Thanks Karisma, by any cognate are there images as well? I only see the email and a spreadsheet of metrics

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Wednesday, Jul 7, 10:20 AM

Hi Ryan,

Is this ready to distribute? Are you able to send a template email with instructions for the investigators. I received the final list from the site investigators who will be analyzing using the online tool and I can distribute once this is ready to send.

Thank you for your help, we really appreciate it!

Thanks,  
Karisma

From: **Ayata** |  
CAYATA@mgh.harvard.edu

To: **Ryan.Cabeen@loni.usc.edu** |  
Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 5:17  
PM

Works, Ryan. Would you please write an email template for Karisma to distribute to the 6 selected raters?  
Great job, thanks,  
Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the

e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 7:34 PM

**External Email - Use Caution**

Hi all,

Just wanted to follow up on this — I have a test site up and running, now with a training video, some fixes, and a system for archiving the annotations. Here's an example that is live:

[www.spinhub.io/span-colab-72950](http://www.spinhub.io/span-colab-72950)

username: span

password: Epsmb6tBCURMGCIW

So we should be ready to share this with the sites soon, but I think the last thing we need is a final test run. Perhaps one of you could try loading it up and drawing on a few images and letting me know if it seems to work? Then, I'll check to see that everything was archived properly on my end. It shouldn't take more than a few minutes, and it would be very helpful!

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)



From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 12:54 PM

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the measurements. They should send a name and email address.

Let me know if issues...

Thanks!

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Thursday, Jun 24, 3:52 PM

#### External Email - Use Caution

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then

letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>  
<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Wednesday, Jul 7, 10:57 AM

To: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Cc: **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu, **Jessica Lamb** | lambj@usc.edu

Hi Ryan,

Dr. Qin uploaded them into the google drive link, the files were too large to send via email.

Please see link below:

[drive.google.com/drive/folders/10zV1CcL0QeI15qYKA4YgN\\_J5mdw1x-F9?usp=sharing](https://drive.google.com/drive/folders/10zV1CcL0QeI15qYKA4YgN_J5mdw1x-F9?usp=sharing)

Thanks,  
Karisma

---

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu To: **Karisma A Nagarkatti** | nagarkat@usc.edu Wednesday, Jul 7, 10:47 AM

Sounds good, thank you!

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC

University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Wednesday, Jul 7, 10:46 AM

Hi Ryan,

Dr. Qin only sent me metrics but let me follow up with him, perhaps he forgot to include the images in the excel doc.

Thanks  
Karisma

From: **Ryan Cabeen** |  
[Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

To: **Karisma A Nagarkatti** |  
[nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Wednesday, Jul 7, 10:44  
AM

Thanks Karisma, by any cognate are there images as well? I only see the email and a spreadsheet of metrics

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Wednesday, Jul 7, 10:20 AM

Hi Ryan,

Is this ready to distribute? Are you able to send a template email with instructions for the

investigators. I received the final list from the site investigators who will be analyzing using the online tool and I can distribute once this is ready to send.

Thank you for your help, we really appreciate it!

Thanks,

Karisma

From: **Ayata** |  
CAYATA@mgh.harvard.edu

To: **Ryan.Cabeen@loni.usc.edu** |  
Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 5:17  
PM

Works, Ryan. Would you please write an email template for Karisma to distribute to the 6 selected raters?

Great job, thanks,

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 7:34 PM

**External Email - Use Caution**

Hi all,

Just wanted to follow up on this — I have a test site up and running, now with a training video, some fixes, and a system for archiving the annotations. Here's an example that is live:

[www.spinhub.io/span-colab-72950](http://www.spinhub.io/span-colab-72950)

username: span

password: Epsmb6tBCURMGCIW

So we should be ready to share this with the sites soon, but I think the last thing we need is a final test run. Perhaps one of you could try loading it up and drawing on a few images and letting me know if it seems to work? Then, I'll check to see that everything was archived properly on my end. It shouldn't take more than a few minutes, and it would be very helpful!

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 12:54 PM

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the measurements. They should send a name and email address.

Let me know if issues...

Thanks!

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline>. If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The

last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD

Chan Zuckerberg Imaging Scientist

Assistant Professor of Research Neurology

Laboratory of Neuro Imaging

USC Stevens Neuroimaging and Informatics Institute

Keck School of Medicine of USC

University of Southern California

2025 Zonal Ave.

Los Angeles, CA 90033

Tel: (323) 44-BRAIN

Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)

Web: <http://cabeen.io>

<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with an online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Wednesday, Jul 7, 11:11 AM

To: **Karisma A Nagarkatti** | nagarkat@usc.edu

Cc: **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu, **Jessica Lamb** | lambj@usc.edu

Great, I'll update the website to include these and then send along the links to circulate to the raters



Thanks  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
[2025 Zonal Ave.](#)  
[Los Angeles, CA 90033](#)  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Wednesday, Jul 7, 10:57 AM

Hi Ryan,

Dr. Qin uploaded them into the google drive link, the files were too large to send via email.  
Please see link below:

[drive.google.com/drive/folders/10zV1CcL0Qel15qYKA4YgN\\_J5mdw1x-F9?usp=sharing](https://drive.google.com/drive/folders/10zV1CcL0Qel15qYKA4YgN_J5mdw1x-F9?usp=sharing)

Thanks,  
Karisma

From: **Ryan Cabeen** |  
[Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

To: **Karisma A Nagarkatti** |  
[nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Wednesday, Jul 7, 10:47  
AM

Sounds good, thank you!

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)

Web: [cabeen.io](http://cabeen.io)

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Wednesday, Jul 7, 10:46 AM

Hi Ryan,

Dr. Qin only sent me metrics but let me follow up with him, perhaps he forgot to include the images in the excel doc.

Thanks

Karisma

From: **Ryan Cabeen** |  
Ryan.Cabeen@loni.usc.edu

To: **Karisma A Nagarkatti** |  
nagarkat@usc.edu

Wednesday, Jul 7, 10:44  
AM

Thanks Karisma, by any cognate are there images as well? I only see the email and a spreadsheet of metrics

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Wednesday, Jul 7, 10:20 AM

Hi Ryan,

Is this ready to distribute? Are you able to send a template email with instructions for the investigators. I received the final list from the site investigators who will be analyzing using the online tool and I can distribute once this is ready to send.

Thank you for your help, we really appreciate it!  
Thanks,

Karisma

From: **Ayata** |  
CAYATA@mgh.harvard.edu

To: **Ryan.Cabeen@loni.usc.edu** |  
Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 5:17  
PM

Works, Ryan. Would you please write an email template for Karisma to distribute to the 6 selected raters?

Great job, thanks,  
Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 7:34 PM

**External Email - Use Caution**

Hi all,

Just wanted to follow up on this — I have a test site up and running, now with a training video, some fixes, and a system for archiving the annotations. Here's an example that is live:

[www.spinhub.io/span-colab-72950](http://www.spinhub.io/span-colab-72950)

username: span

password: Epsmb6tBCURMGCIW

So we should be ready to share this with the sites soon, but I think the last thing we need is a final test run. Perhaps one of you could try loading it up and drawing on a few images and letting me know if it seems to work? Then, I'll check to see that everything was archived properly on my end. It shouldn't take more than a few minutes, and it would be very helpful!

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 12:54 PM

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the measurements. They should send a name and email address.

Let me know if issues...

Thanks!

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data

up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>  
<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

*Many thanks,*

*The CC"*

Thanks,  
Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---

From: **Ryan Cabeen** | ryan.cabeen@loni.usc.edu

Thursday, Jul 8, 11:22 PM

To: **Karisma A Nagarkatti** | nagarkat@usc.edu

Cc: **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu, **Jessica Lamb** | lambj@usc.edu

Hi all,

I've updated the annotation website to use the new cases, so I think we are ready to share with the raters! Copied below please find a draft template email, which can be updated as you all see fit:

<quote>

Dear <name>,

We are writing to kindly ask for your help in validating our image analysis pipeline by providing manual segmentations of brain and lesion extent from our TTC-stained tissue images. We have built an online tool for drawing outlines, and there are about 140 images that we ask each site to help annotate. You can follow the link below and use the given username and password to login:

<url> <username>:<password>

There is an instructional video on the site that describes and demonstrates how to use the tool. Please use your own best judgement in defining the brain and lesion outlines. If there is no lesion, you can skip that label, but every image should have at least a brain label. You may also label any other features that you find relevant using a custom label. Your work will be saved automatically to the server, so you won't have to worry about sending results back to us. Please let the coordinating center know when you are finished with the task. It should take 30 seconds to 1 minute per image, so the task should take less than two hours. If you leave the site, you can return and find your previous work, but you will need to skip ahead to the image where you left off.

If you have any questions you can email Ryan Cabeen at [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu). Your help with this is very much appreciated!

Best wishes,

the CC

</quote>

Then, here are the unique url/username/password that can be pasted in for each of the six raters:

[www.spinhub.io/span-colab-10081](http://www.spinhub.io/span-colab-10081) span:Q2lvwmwxwQjs0RLLa [www.spinhub.io/span-colab-11183](http://www.spinhub.io/span-colab-11183)  
span:5qzSAV3IzDEzR4QU [www.spinhub.io/span-colab-19588](http://www.spinhub.io/span-colab-19588) span:c8S4gqC2UI62R35j [www.spinhub.io/span-colab-22859](http://www.spinhub.io/span-colab-22859) span:AhiuEUR0gIBb4MdO [www.spinhub.io/span-colab-24842](http://www.spinhub.io/span-colab-24842) span:q1KdsT4nYt8dCFih  
[www.spinhub.io/span-colab-25078](http://www.spinhub.io/span-colab-25078) span:MiEDHXEc5oQ5UpI0

Please let me know if you need anything else.

Cheers,

Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist

Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **Ryan Cabeen** | [Ryan.Cabeen@loni.usc.edu](mailto:Ryan.Cabeen@loni.usc.edu)

Wednesday, Jul 7, 11:11 AM

Great, I'll update the website to include these and then send along the links to circulate to the raters

Thanks

Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
[2025 Zonal Ave.](#)  
[Los Angeles, CA 90033](#)  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Wednesday, Jul 7, 10:57 AM

Hi Ryan,

Dr. Qin uploaded them into the google drive link, the files were too large to send via email.

Please see link below:

[drive.google.com/drive/folders/10zV1CcL0Qel15qYKA4YgN\\_J5mdw1x-F9?usp=sharing](https://drive.google.com/drive/folders/10zV1CcL0Qel15qYKA4YgN_J5mdw1x-F9?usp=sharing)

Thanks,

Karisma

From: **Ryan Cabeen** |

To: **Karisma A Nagarkatti** |

Wednesday, Jul 7, 10:47



Sounds good, thank you!

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Wednesday, Jul 7, 10:46 AM

Hi Ryan,

Dr. Qin only sent me metrics but let me follow up with him, perhaps he forgot to include the images in the excel doc.

Thanks

Karisma

From: **Ryan Cabeen** |  
Ryan.Cabeen@loni.usc.edu

To: **Karisma A Nagarkatti** |  
nagarkat@usc.edu

Wednesday, Jul 7, 10:44  
AM

Thanks Karisma, by any cognate are there images as well? I only see the email and a spreadsheet of metrics

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033

Tel: (323) 44-BRAIN

Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)

Web: [cabeen.io](http://cabeen.io)

From: **Karisma A Nagarkatti** | nagarkat@usc.edu

Wednesday, Jul 7, 10:20 AM

Hi Ryan,

Is this ready to distribute? Are you able to send a template email with instructions for the investigators. I received the final list from the site investigators who will be analyzing using the online tool and I can distribute once this is ready to send.

Thank you for your help, we really appreciate it!

Thanks,

Karisma

From: **Ayata** |  
CAYATA@mgh.harvard.edu

To: **Ryan.Cabeen@loni.usc.edu** |  
Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 5:17  
PM

Works, Ryan. Would you please write an email template for Karisma to distribute to the 6 selected raters?

Great job, thanks,

Cenk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at [www.massgeneralbrigham.org/complianceline](http://www.massgeneralbrigham.org/complianceline) . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Tuesday, Jun 29, 7:34 PM

**External Email - Use Caution**

Hi all,

Just wanted to follow up on this — I have a test site up and running, now with a training video,

some fixes, and a system for archiving the annotations. Here's an example that is live:

[www.spinhub.io/span-colab-72950](http://www.spinhub.io/span-colab-72950)

username: span

password: Epsmb6tBCURMGCIW

So we should be ready to share this with the sites soon, but I think the last thing we need is a final test run. Perhaps one of you could try loading it up and drawing on a few images and letting me know if it seems to work? Then, I'll check to see that everything was archived properly on my end. It shouldn't take more than a few minutes, and it would be very helpful!

Thanks,  
Ryan

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
[Email: rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 12:54 PM

Sounds great.

Karisma,

Let's send that email message to the site PIs so they identify the local staff who will do the measurements. They should send a name and email address.

Let me know if issues...

Thanks!

Genk

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-

mail.

Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

From: **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Thursday, Jun 24, 3:52 PM

**External Email - Use Caution**

Thanks Karisma! Yes, I'll need a bit more time to polish and test things, but it's nearly there. The last remaining pieces I see on my end are: to create a training video, to split the data up for each rater, and then do a final test session. I'll circle back after that, should be a few more days. By the way, here's a link to the current version:

<http://www.spinhub.io>

username: span

password: v45nLSXrTYFBmqoX

If you'd like to experiment with the test site above and have any feedback, I'm all ears. The first two images are cartoons I'll use for the tutorial (to be removed before sharing with the sites), and otherwise all of the TTC images are online there now, some of which have annotations that I made.

What I'm imagining is that I can create a separate unique version of this website for each rater, and then the CC can email each rater/site their assigned website url/credentials. Then, I'll be able to access their annotations from the server myself, so their only task would be the labeling and then letting the CC know when they are done. How does that sound?

Ryan P. Cabeen, PhD  
Chan Zuckerberg Imaging Scientist  
Assistant Professor of Research Neurology  
Laboratory of Neuro Imaging  
USC Stevens Neuroimaging and Informatics Institute  
Keck School of Medicine of USC  
University of Southern California  
2025 Zonal Ave.  
Los Angeles, CA 90033  
Tel: (323) 44-BRAIN  
Email: [rcabeen@loni.usc.edu](mailto:rcabeen@loni.usc.edu)  
Web: <http://cabeen.io>

<http://www.ini.usc.edu>

From: **CAYATA@mgh.harvard.edu**

Thursday, Jun 24, 8:25 AM

Thanks, Karisma.

Ryan, I think we need together on with this... do you need more time to implement the online tool?

Thanks!!

Cenk

From: **Karisma A Nagarkatti** | [nagarkat@usc.edu](mailto:nagarkat@usc.edu)

Thursday, Jun 24, 11:22 AM

**External Email - Use Caution**

Hi Drs. Ayata and Cabeen,

I wanted to follow up on Dr. Ayata's announcement last week that sites will be provided with a online tool to outline some TTC scans. Please let me know when this is available and I will send it out with the instructions that you provide. Dr. Lyden has made a draft email below, please edit as needed. Thanks for your help!

*"Dear Colleagues*

*The CC would like to follow up on the MRI validation plan. As you know, we have 20 subjects that have been scanned with MRI and subject to TTC imaging. Now we will run the MRI scans through the LONI pipeline. To quantify the TTC images, we will use an online tool that allows us to easily collect measurements from multiple users. Please identify one rater from your site to do the TTC outlining. Each rater will get 12 or so brains to analyze.*

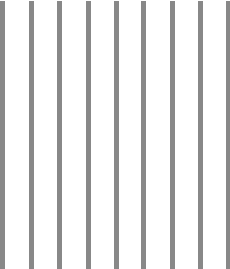
*Many thanks,*

*The CC"*

Thanks,

Karisma

The information in this e-mail is intended only for the person to whom it is addressed. If you believe this e-mail was sent to you in error and the e-mail contains patient information, please contact the Mass General Brigham Compliance HelpLine at <http://www.massgeneralbrigham.org/complianceline> . If the e-mail was sent to you in error but does not contain patient information, please contact the sender and properly dispose of the e-mail.



Please note that this e-mail is not secure (encrypted). If you do not wish to continue communication over unencrypted e-mail, please notify the sender of this message immediately. Continuing to send or respond to e-mail after receiving this message means you understand and accept this risk and wish to continue to communicate over unencrypted e-mail.

---