


# Stephanie M Noble

POSTDOCTORAL ASSOCIATE · COMPUTATIONAL NEUROSCIENCE

300 Cedar Street | New Haven CT 06519

stephanie.noble@yale.edu | 860 416 2384 |  sneuroble.github.io |  @sNeuroble |  @sNeuroble

## Education

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### Postdoctoral Associate, Yale University

New Haven CT

RADIOLOGY & BIOMEDICAL IMAGING

Aug. 2019 - Present

- Advisor: Dustin Scheinost

### PhD, Yale University

New Haven CT

INTERDEPARTMENTAL NEUROSCIENCE PROGRAM (INP)

Sept. 2014 – May 2019

- Dissertation: Reliability & Validity of fMRI Mapping Methods
- Advisor: R. Todd Constable
- Qualified for Candidacy with Distinction

### BSE, Princeton University

Princeton NJ

CHEMICAL & BIOLOGICAL ENGINEERING: BIOTECHNOLOGY & BIOINFORMATICS TRACK

Sept. 2008 – May 2012

- Honors Certificate: Neuroscience: Quantitative & Computational Neuroscience
- Certificate: Engineering Biology

## Experience

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### Source Signal Imaging

San Diego CA

INDEPENDENT CONSULTANT

Oct. 2013 – Aug 2014

- Research and prototyping for EEG source estimation projects

### goBlue Labs

New Haven CT

FOUNDING CHIEF SCIENCE OFFICER (CSO)

2012 – 2013

- Real-time EEG source estimation and neurofeedback software

### Princeton University

Princeton NJ

SENIOR THESIS

2012 – 2013

- Advisor: Clarence E. Schutt
- Thesis: Muscle Contraction as a Markov Process

JUNIOR INDEPENDENT WORK

2011 – 2012

- Advisor: Clarence E. Schutt
- Topic: "A Search for Novel Interactions: h-Actin and Tropomyosin"

PRINCETON SIEBEL ENERGY GRAND CHALLENGES SUMMER FELLOWSHIP

2010 – 2011

- Advisor: Jay B. Benziger
- Topic: "Hydrogen Purification by Electrochemical Pumping" with Prof. Jay B Benziger

# Honors & Awards

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## FELLOWSHIPS & GRANTS

2019 - 2023	<b>NIH 8K00MH122372-02: Constrained Network-Based Multiple Comparison Correction</b> <i>Principle Investigator:</i> Stephanie Noble <i>Funding Source:</i> National Institute of Neurological Disorders and Stroke NIH Blueprint Diversity Specialized Predoctoral to Postdoctoral Advancement in Neuroscience (DSPAN) Award (F99/K00) <i>Amount:</i> \$73,168 / year
2018 - 2019	<b>NIH 1F99NS108557-01: Improving Reliability and Validity of fMRI Statistical Methods</b> <i>Principle Investigator:</i> Stephanie Noble <i>Funding Source:</i> National Institute of Neurological Disorders and Stroke NIH Blueprint Diversity Specialized Predoctoral to Postdoctoral Advancement in Neuroscience (DSPAN) Award (F99/K00) <i>Amount:</i> \$45,524 / year
2016 - 2018	<b>NSF DGE1122492</b> <i>Fellow:</i> Stephanie Noble <i>Funding Source:</i> National Science Foundation <i>Program:</i> Graduate Research Fellowship Program <i>Amount:</i> \$46,000 / year

## ACADEMIC HONORS & AWARDS

2019	<b>Abstract Merit Award</b> , Organization for Human Brain Mapping, \$2,000 (15 awardees)
2019	<b>Associate Member Nomination</b> , Sigma Xi
2018 - 2019	<b>Program for Excellence in Science Fellowship</b> , AAAS / Science
2018	<b>Annie Le Fellowship</b> , Yale University (stipend & professional enrichment supplement; academic excellence and service to the community)
2017	<b>Qualified for Candidacy with Distinction</b>
2016	<b>Best Poster Award</b> , Yale Biomedical Engineering Retreat
2015 - 2017	<b>Neuroscience Scholars Program Fellowship</b> , Society for Neuroscience (15 awardees, support for society meeting attendance, society membership, professional enrichment funds)
2012	<b>Honors Certification in Quantitative &amp; Computational Neuroscience</b>
2010	<b>Siebel Energy Grand Challenges Fellowship</b> , Princeton University, \$4,500
2009 - 2012	<b>Howard Hunt Garmany Memorial Scholarship</b> , Hartford Foundation for Public Giving (awarded annually)

## SCIENCE OUTREACH

2016	<b>WE16 Outreach Award</b> , Society of Women Engineers (to Yale GradSWE; outreach co-chair)
2016	<b>Yale University Seton Elm-Ivy Award</b> (to INP Outreach Committee; co-chair)

## INDUSTRY

2013	<b>Innovation Fund</b> , Yale Entrepreneurial Institute, \$100,000 (offered) (exclusive award to Yale start-up)
2012	<b>TechStart Accelerator Program Fund</b> , Connecticut Innovations, \$25,000 (exclusive award to 5 CT start-ups)
2012	<b>Private Investment</b> , Bridge Builders Collaborative, undisclosed

## Publications

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H-index=10, Accepted=17, First Author=7, Google Scholar: <https://scholar.google.com/citations?user=JxQdvn4AAAAJ>

\* = all authors contributed equally

### Accepted

1. **Noble, S.**, Scheinost, D., Constable, R.T., 2021. A guide to the measurement and interpretation of fMRI test-retest reliability. *Current Opinion in Behavioral Sciences*, 40, 27-32. (Invited review, Deep Imaging special issue).
2. Gau, R.\*, **Noble, S.\***, Heuer, K.\*, Bottenhorn, K.\*, Bilgin, I.P.\*, Yang, Y.\*, Huntenburg, J.\*, Bayer, J.M.M.\*, Bethlehem, R.\*, ... Brainhack community. In press. Brainhack: developing a culture of open, inclusive, community-driven neuroscience. *Neuron*. (Preprint: <https://psyarxiv.com/rytjq/>)
3. Barron, D.S., Gao, S., Dadashkarimi, J., Greene, A.S., Spann, M.N., **Noble, S.**, Lake, E., Krystal, J.H., Constable, R.T., Scheinost, D., 2020. Transdiagnostic, Connectome-Based Prediction of Memory Constructs Across Psychiatric Disorders. *Cerebral Cortex*.
4. Horien, C., **Noble, S.**, Greene, A.S., Lee, K., Barron, D.S., Gao, S., O'Connor, D., Salehi, M., Dadashkarimi, J., Shen, X., Lake, E.M., Constable, R.T., Scheinost, D., 2020. A Hitchhiker's Guide to Working with Large, Open-Source Neuroimaging Datasets. *Nature Human Behavior*.
5. **Noble, S.**, Scheinost, D., 2020. The Constrained Network-Based Statistic: A New Level of Inference for Neuroimaging. *Medical Image Computing and Computer Assisted Intervention—MICCAI 2020: 23rd International Conference, Lima, Peru, October 4–8, 2020, Proceedings, Part VII* 23, 458-468.
6. Greene, A.S., Gao, S., **Noble, S.**, Scheinost, D., Constable, R.T., 2020. How Tasks Change Whole-Brain Functional Organization to Reveal Brain-Phenotype Relationships. *Cell Reports* 32, 108066.
7. **Noble, S.**, Scheinost, D., & Constable, R. T., 2020. Cluster failure or power failure? Evaluating sensitivity in cluster-level inference. *NeuroImage* 209, 116468.
8. **Noble, S.**, Scheinost, D., Constable, R.T., 2019. A decade of test-retest reliability of functional connectivity: A systematic review and meta-analysis. *Neuroimage* 203, 116157.
9. Dadashkarimi, J., Gao, S., Yeagle, E., **Noble, S.**, Scheinost, D., 2019. A Mass Multivariate Edge-wise Approach for Combining Multiple Connectomes to Improve the Detection of Group Differences. *International Workshop on Connectomics in Neuroimaging*. Springer, Cham, 64-73.
10. Yoo, K., Rosenberg, M.D., **Noble, S.**, Scheinost, D., Constable, R.T., Chun, M.M., 2019. Multivariate approaches improve the reliability and validity of functional connectivity and prediction of individual behaviors. *Neuroimage* 197, 212-223.
11. Scheinost, D., **Noble, S.**, Horien, C., Greene, A.S., Lake, E.M., Salehi, M., Gao, S., Shen, X., O'Connor, D., Barron, D.S., Yip SW., Rosenberg, M.D., Constable, R.T., 2019. Ten simple rules for predictive modeling of individual differences in neuroimaging. *Neuroimage*.

12. Lake, E.M., Finn, E.S., **Noble, S.M.**, Vanderwal, T., Shen, X., Rosenberg, M.D., Spann, M.N., Chun, M.M., Scheinost, D., Constable, R.T., 2019. The Functional Brain Organization of an Individual Allows Prediction of Measures of Social Abilities Transdiagnostically in Autism and Attention-Deficit/Hyperactivity Disorder. *Biological psychiatry*.
13. Horien, C., **Noble, S.**, Finn, E.S., Shen, X., Scheinost, D., Constable, R.T., 2018. Considering factors affecting the connectome-based identification process: Comment on Waller et al. *Neuroimage* 169, 172-175.
14. **Noble, S.**, Spann, M.N., Tokoglu, F., Shen, X., Constable, R.T., Scheinost, D., 2017a. Influences on the test–retest reliability of functional connectivity MRI and its relationship with behavioral utility. *Cerebral cortex* 27, 5415-5429.
15. **Noble, S.**, Scheinost, D., Finn, E.S., Shen, X., Papademetris, X., McEwen, S.C., Bearden, C.E., Addington, J., Goodyear, B., Cadenhead, K.S., 2017b. Multisite reliability of MR-based functional connectivity. *Neuroimage* 146, 959-970.
16. Benjamin, C.F., Walshaw, P.D., Hale, K., Gaillard, W.D., Baxter, L.C., Berl, M.M., Polczynska, M., **Noble, S.**, Alkawadri, R., Hirsch, L.J., 2017. Presurgical language fMRI: mapping of six critical regions. *Human brain mapping* 38, 4239-4255.
17. Scheinost, D., Tokoglu, F., Shen, X., Finn, E.S., **Noble, S.**, Papademetris, X., Constable, R.T., 2016. Fluctuations in global brain activity are associated with changes in whole-brain connectivity of functional networks. *IEEE Transactions on Biomedical Engineering* 63, 2540-2549.

#### Under Review

18. Bridgeford, E. W., Wang, S., Yang, Z., Wang, Z., Xu, T., Craddock, C., ... **Noble, S.**, Priebe, C.E., Caffo, B., Milham, M., Zuo, X., Consortium for Reliability and Reproducibility, Vogelstein, J. T. Submitted. Eliminating accidental deviations to minimize generalization error and maximize reliability: applications in connectomics and genomics. (Preprint: <https://www.biorxiv.org/content/10.1101/802629v7>)
19. Ibrahim, K., **Noble, S.**, He, G., Lacadie, C., Crowley, M.J., McCarthy, G., Scheinost, D., and Sukhodolsky, D.G. Submitted. Large-Scale Functional Brain Networks of Maladaptive Childhood Aggression Identified by Connectome-Based Predictive Modeling.
20. Dadashkarimi, J., Tejavibulya, L., Gao, S., Greene, A., **Noble, S.**, Constable, R.T., Scheinost, D., Submitted. Combining task connectomes can emphasize or deemphasize group differences in predictive modeling.

#### Preprints

1. Dufford, A.J., Noble, S., Gao, S., Scheinost, D. 2021. Low Infant Functional Connectome-based Identification Rates Across the First Year of Life. *bioRxiv*. <https://doi.org/10.1101/2021.04.14.439877>
2. Levitis, E., Gould van Praag, C. D., Gau, R., Heunis, S., DuPre, E., Kiar, G., ... **Noble, S.**, ... Maumet, C. 2021. Centering inclusivity in the design of online conferences. *PsyArXiv*. <https://doi.org/10.31234/osf.io/vj5tu>
3. Shinn, M., Hu A, Turner L, Noble S, Achard S, Anticevic A, Scheinost D, Constable RT, Lee D, Bullmore ET, Murray JD. 2021. Spatial and temporal autocorrelation weave human brain networks. *BioRxiv*. <https://www.biorxiv.org/content/10.1101/2021.06.01.446561v1>

#### Acknowledgements

1. Kim, J.S., Greene, M.J., Zlateski, A., Lee, K., Richardson, M., Turaga, S.C., ... & Campos M., 2014. Space–time wiring specificity supports direction selectivity in the retina. *Nature*, 509(7500), 331. (listed as “curiousimbroglio” in “the Eyewirers”).
2. Bzymek, Z.M., Vahidi, S., & Spottiswoode, H., 2007. Solutions of the 21st Century–Teaching Computer-Aided Conceptual Design. *Computer-Aided Design and Applications*, 4(1-4), 459-465.

#### Selected Media

1. Interview. Yu, A. 2021. Scientists have used fMRI to study brain activity for years. Now, some question the results' reliability. *The Pulse*. WHYY PBS NPR. <https://why.org/segments/scientists-used-fmri-to-study-brain-activity-for-years-now-some-question-the-results-reliability/>
2. Interview. Proff, I., 2020. Can brain scans transform psychiatry? Medium. <https://medium.com/@irisproff/can-brain-scans-transform-psychiatry-963ff2e5fb4f>
3. Interview. Macmillon, T., 2012. Start-Up seeks to tap mind power. New Haven Independent. [https://www.newhavenindependent.org/index.php/archives/entry/start-up\\_tries\\_to\\_tap\\_mind\\_power/](https://www.newhavenindependent.org/index.php/archives/entry/start-up_tries_to_tap_mind_power/)

## Presentations

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### Talks & Symposia (\*=Invited)

1. **Noble, S.** (2021, scheduled). Panel: Aperture and Open Science Roundtable. Organization for Human Brain Mapping Meeting. Speakers: Aki Nikolaidis (moderator), JB Poline (moderator), Ilona Lipp, Stephanie Noble.
2. **Noble, S.** (2021, scheduled). Panel: Ensuring open science is accessible. Organization for Human Brain Mapping Meeting: Open Science Room. Speakers: Stephanie Noble (moderator), Stephen Klusza, Syreeta Nolan, Amanda Klinger, and Alyssa Paparella.
3. **Noble, S.** (2021, scheduled). Symposium: Current frontiers in statistical inference for neuroimaging data. Talk: Cluster failure or power failure? Towards a new level of inference for neuroimaging. IEEE International Symposium on Biomedical Imaging. Organization for Human Brain Mapping Meeting. Speakers: Bertrand Thirion (organizer), Jeanette Mumford (moderator), Stephanie Noble, and Jonathan D. Rosenblatt.
4. \* **Noble, S.** (2021). Invited talk. Leveling Up: Improving power in functional connectivity by moving beyond cluster-level inference. Oxford Reading Group, Oxford University.
5. **Noble, S.** (2021). Symposium: Functional Networks. Talk: Reliability and Inference in functional networks. IEEE International Symposium on Biomedical Imaging. Speakers: Danielle Bassett, Jingyuan Chen, Stephanie Noble, Maria Giulia Preti (co-organizer with Isik Karahanoglu), and Joana Cabral.
6. **Noble, S.** (2021). Lightning talk. Leveling Up: Improving power in functional connectivity by moving beyond cluster-level inference. Writing Your Own Blueprint: The NIH Blueprint Diversity Conference.
7. \* **Noble, S.** (2021). Invited talk. Leveling Up: Improving power in functional connectivity by moving beyond cluster-level inference. Cognitive Development Lab, Columbia University.
8. \* **Noble, S.** (2021). Invited talk. Leveling Up: Improving power in functional connectivity by moving beyond cluster-level inference. Innovators in Cognitive Neuroscience. <https://www.youtube.com/watch?v=lm80J8-dbS0>
9. \* **Noble, S.** (2020). Invited talk. The constrained network based statistic: A new level of inference for neuroimaging. BRAIN Initiative Alliance's Tools, Tech, Theory and Trainee Series. Neuromatch Conference 3.0.
10. **Noble, S., Scheinost, D.** (2020). Oral Session. The constrained network based statistic: A new level of inference for neuroimaging. Medical Image Computing and Computer Assisted Intervention.
11. \* **Noble, S., Scheinost, D., Constable, R.T.** (2020). Invited talk. A decade of test-retest reliability of functional connectivity. Yale Appetitive Science Seminar Series.
12. **Noble, S., Dadashkarimi, J., Saltzman, Z., Lacadie, C., Garbus, H., Casetti, D., Onofrey, J., Papademetris, X., Scheinost, D.** (2020). Tutorial. Try BioImage Suite Web, a modern and powerful software for neuroscience. Brainhack NY 2020.
13. **Noble, S., Dadashkarimi, J., Papademetris, X., Scheinost, D.,** (2020). Talk & Demo. Web native data analysis with WebAssembly: a BISWeb demo and conversation. Organization for Human Brain Mapping Meeting: Open Science Room. <https://www.youtube.com/watch?v=9Xgn7Jg7ypo>

14. **Noble, S.**, Scheinost, D., Constable, R.T. (2020). Symposium: Measuring the Individual: Understanding sources of variability in task and resting fMRI. Talk 1: Factors influencing the test-retest reliability of functional connectivity. Organization for Human Brain Mapping Meeting. Speakers: Stephanie Noble, Erin Dickie, Caterina Gratton, and Colin Hawco (organizer).
15. Dadashkarimi, J., **Noble, S.**, Greene, A., Constable, R.T., Papademetris, X., Scheinost, D. (2020). Software demo. On Visualization and Interpretation of Complex Connectomic Results. Organization for Human Brain Mapping Meeting.
16. **(Merit Abstract Award) Noble, S.**, Scheinost, D., Constable, R.T. (2019). Oral Session. Cluster Failure or Power Failure? Evaluating Sensitivity in Cluster-Level Inference. Organization for Human Brain Mapping Meeting.  
[https://www.pathlms.com/ohbm/courses/12238/sections/15843/video\\_presentations/138325](https://www.pathlms.com/ohbm/courses/12238/sections/15843/video_presentations/138325)
17. **Noble, S.**, Dadashkarimi, J., Saltzman, Z., Lacadie, C., Garbus, H., Casetti, D., Onofrey, J., Papademetris, X., Scheinost, D. (2019). Talk & Demo. Introducing Biolmage Suite Web. Organization for Human Brain Mapping Meeting: Open Science Room.
18. **Noble, S.**, Scheinost, D., Constable, R.T. (2019). Symposium: Towards Understanding Individual Variability with Functional Neuroimaging: Big data and deep data perspectives. Talk 1: Factors influencing the test-retest reliability of functional connectivity. Cognitive Neuroscience Society. Speakers: Stephanie Noble, Caterina Gratton (co-chair), Colin Hawco (chair), and Mac Shine.
19. **Noble, S.**, Saltzman, Z. (co-presenter), Dadashkarimi, J., Lacadie, C., Garbus, H., Casetti, D., Onofrey, J., Papademetris, X., Scheinost, D. (2019). Tutorial. Introducing Biolmage Suite Web. Brainhack Yale 2019.
20. **Noble, S.**, O'Connor, D (co-presenter). (2018). Tutorial. Intro to Machine Learning for fMRI with Nilearn. Brainhack Yale 2018.
21. \* **Noble, S.**, Constable, R.T. Scheinost, D (2017). Invited talk. Factors influencing Reliability of Functional Connectivity. Yale Magnetic Resonance Seminar Series.
22. \* **Noble, S.**, Scheinost, D., Bookheimer, SY, Walshaw, P, Constable, R.T., Benjamin, C (2015). Invited talk. Initial validation of a novel method of presurgical fMRI language localization through functional connectivity. Yale Epilepsy Research Retreat 2015.
23. \* **Noble, S.**, Scheinost, D., Constable, R.T., Cannon, T.D. (2015). Invited talk. Reliability of Multisite Functional Connectivity. Yale NeuroDay 2015.

## Posters

24. Tejavibulya, L., Peterson, H., Gao, S., **Noble, S.**, Rolison, M., Scheinost, D. (Submitted). Identifying differences in functional organization of left- and right-handed individuals using functional connectivity. Flux Congress.
25. **Noble, S.**, Scheinost, D. (2021, Scheduled). Leveling up: How broader levels of inference improve power in functional connectivity. Organization for Human Brain Mapping Meeting.
26. Dufford, A., **Noble, S.**, Gao, S., Scheinost, D. (2021, Scheduled). Low Infant Functional Connectome-based Identification Accuracy Across the First Year of Life. Organization for Human Brain Mapping Meeting.
27. Greene, A.S., Shen, X., **Noble, S.**, Hahn, A., Arora, J., Tokoglu, F., Spann, M., Barron, D.S., Scheinost, D., Constable, R.T. (2021, Scheduled). Predictive modeling reveals subgroup-specific brain-phenotype relationships. Organization for Human Brain Mapping Meeting.
28. Dadashkarimi, J., Tejavibulya, L., Gao, S., Greene, A., **Noble, S.**, Constable, R.T., Scheinost, D. (2021, Scheduled). Combining task connectomes can emphasize or deemphasize group differences in predictive modeling. Organization for Human Brain Mapping Meeting.
29. Tejavibulya, L., Peterson, H., Gao, S., **Noble, S.**, Rolison, M., Scheinost, D. (2021, Scheduled). Identifying differences in functional organization of left- and right-handed individuals using functional connectivity. Organization for Human Brain Mapping Meeting.
30. **Noble, S.**, Dadashkarimi, J., Saltzman, Z., Lacadie, C., Garbus, H., Onofrey, J., Papademetris, X., Scheinost, D. (2021, accepted 2020 but postponed due to COVID19). Bioimage Suite Web: A Simple, Modern, & Powerful Software Suite. International Neuroinformatics Coordinating Facility Assembly.

31. Dadashkarimi, J., **Noble, S.**, Qu., A., Saltzman, Z., Shen, X., Lake, E., Constable, R.T., Papademetris, X., Scheinost, D. (2021, accepted 2020 but postponed due to COVID19). A web-based toolkit for visualizing and interpreting complex connectomic results in BISWeb. International Neuroinformatics Coordinating Facility Assembly.
32. **Noble, S.**, Scheinost, D. (2020). The Constrained Network-Based Statistic: A New Level of Inference for Neuroimaging. In Medical Image Computing and Computer Assisted Intervention.
33. Dadashkarimi, J., **Noble, S.**, Greene, A., Constable, R.T., Papademetris, X., Scheinost, D. (2020). On Visualization and Interpretation of Complex Connectomic Results. Brain Initiative Investigators Meeting.
34. Dadashkarimi, J., **Noble, S.**, Greene, A., Constable, R.T., Papademetris, X., Scheinost, D. (2020). On Visualization and Interpretation of Complex Connectomic Results. Organization for Human Brain Mapping Meeting.
35. **Noble, S.**, Dadashkarimi, J., Saltzman, Z., Lacadie, C., Garbus, H., Casetti, D., Onofrey, J., Papademetris, X., Scheinost, D. (2019). Introducing BiImage Suite Web: A Simple, Modern, and Powerful Software Suite. Society for Neuroscience Meeting.
36. **Noble, S.**, Dadashkarimi, J., Saltzman, Z., Lacadie, C., Garbus, H., Casetti, D., Onofrey, J., Papademetris, X., Scheinost, D. (2019). Introducing BiImage Suite Web: A Simple, Modern, and Powerful Software Suite. Organization for Human Brain Mapping Meeting.
37. **Noble, S.**, Scheinost, D., Constable, R.T. (2019). Cluster Failure or Power Failure? Evaluating the Sensitivity of Cluster-Level Inference. Organization for Human Brain Mapping Meeting.
38. Greene, A., Gao, S., **Noble, S.**, Scheinost, D., Constable, R.T. (2019). Task activation and functional connectivity offer distinct insight into brain-behavior relationships. Organization for Human Brain Mapping Meeting.
39. **Noble, S.**, Dadashkarimi, J., Saltzman, Z., Lacadie, C., Garbus, H., Casetti, D., Onofrey, J., Papademetris, X., Scheinost, D. (2019). Introducing BiImage Suite Web: A Simple, Modern, and Powerful Software Suite. BRAIN Initiative Investigator's Meeting.
40. **Noble, S.**, Scheinost, D., Constable, R.T. (2018). Cluster Failure or Power Failure? Balancing the Scale with Sensitivity. 2018 Society for Neuroscience Meeting.
41. **Noble, S.**, Scheinost, D., Constable, R.T. (2018). Cluster Failure or Power Failure? Balancing the Scale with Sensitivity. 2018 Yale Biomedical Imaging Research Retreat.
42. **Noble, S.**, Scheinost, D., Constable, R.T. (2018). Cluster Failure or Power Failure? Balancing the Scale with Sensitivity. 2018 Brain Functional Connectivity and Organization Meeting.
43. **Noble, S.**, Scheinost, D., Constable, R.T. (2016). Influences on Reliability of Functional Connectivity. 2016 Society for Neuroscience Meeting.
44. **Noble, S.**, Scheinost, D., Bookheimer, SY, Walshaw, P, Hirsch, LJ, Spencer, DD, Constable, R.T., Benjamin, C (2016, Feb). Preliminary Support for Presurgical fMRI Language Localization through Functional Connectivity Permutation Testing. 2016 International Neuropsychology Society Meeting.
45. **(Best Poster Award) Noble, S.**, Scheinost, D., Cannon, T.D., Constable, R.T. (2015). Reliability of Multisite Functional Connectivity. 2015 Yale Biomedical Imaging Research Retreat.
46. **Noble, S.**, Scheinost, D., Cannon, T.D., Constable, R.T. (2015). Reliability of Multisite Functional Connectivity. Society for Neuroscience Annual Meeting.
47. **Noble, S.**, Scheinost, D., Cannon, T.D., Constable, R.T. (2015). Reliability of Multisite Functional Connectivity. Society for Neuroscience Annual Meeting: Neuroscience Scholars Program Poster Session.
48. **Noble, S.**, Scheinost, D., Bookheimer, S.Y., Walshaw, P., Constable, R.T., Benjamin, C. (2015). Initial validation of a novel method of presurgical fMRI language localization through functional connectivity. 2015 Yale Day of Data 2015.
49. **Noble, S.**, Schutt, C.E. (2012). Muscle Contraction as a Markov Process. Annual Princeton CBE Thesis Poster Presentations.
50. **Noble, S.**, Bonetti, C.E., Benziger, J.B. (2010). Hydrogen Purification by Electrochemical Pumping. Symposium talk at Princeton Environmental Institute Seibel Energy Grand Challenge Summer of Learning Symposium.

51. **Noble, S.**, Bonetti, C.E., Benziger, J.B. (2010). Building a Multi-Stage Hydrogen Pump. Symposium talk at PRISM/PCCM Research Experience for Undergraduates Presentation Session.  
[http://www.princeton.edu/grandchallenges/energy/internships/meet-our-interns/interns-2010/Noble\\_Stephanie\\_sol.pptx](http://www.princeton.edu/grandchallenges/energy/internships/meet-our-interns/interns-2010/Noble_Stephanie_sol.pptx)

#### Industry Demonstrations

52. **Noble, S.**, Poeuv, S., Brewer, J.A. (2013, February). Private demo for popular media reporter (undisclosed). goBlue Labs.
53. **Noble, S.**, Poeuv, S., Brewer, J.A. (2012, December). Public demo. TechStart Demo Day. Yale University.
54. **Noble, S.**, Poeuv, S., Brewer, J.A. (2012, July). Private demo. Professional Golfer's Association (PGA): Metropolitan Section. Metropolitan PGA Golf Central Offices, Elmsford, NY.
55. **Noble, S.**, Poeuv, S., Brewer, J.A. (2012, Sept). Private demo for New Haven Independent Reporter. goBlue Labs.

#### Industry Pitches

56. Poeuv, S., **Noble, S.**, Pal, P., Brewer, J.A. (2013, October). goBlue Labs YEI Innovation Fund Pitch. Presentation given at Yale University.
57. Poeuv, S., **Noble, S.**, Brewer, J.A. (2013, August). goBlue Labs CI Pre-Seed Program Pitch. Presentation given at Connecticut Innovations in Rocky Hill.
58. Poeuv, S., **Noble, S.**, Brewer, J.A. (2012, December). goBlue Labs New Haven Start-up Competition Pitch. Presentation given at Yale University for an anonymous investor.
59. Poeuv, S., **Noble, S.**, Brewer, J.A. (2012, December). goBlue Labs TechStart Demo Day Pitch. Presentation given at Yale.
60. Poeuv, S., **Noble, S.**, Brewer, J.A. (2012, July). goBlue Labs TechStart Accelerator Competition Pitch. Presentation given at Connecticut Innovations.

## Teaching & Mentoring

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### Mentorship

#### Primary in-lab supervisor

- Tracy Lu (high school student, 2018 - 2019)
- Samantha Steinberg (high school student, 2016)

#### Assistant in-lab supervisor

- Javid Dadashkarimi (PhD student, 2019 – present)
- Link Tejavibulya (PhD student, 2019 – present)
- Hannah Petersen (postgraduate fellow, 2019 – present)

#### Extracurricular mentor

- Darlis Juvino (undergraduate, 2020 – present, via YBDIC-PATHS)
- Evelyn Soria (undergraduate, 2016 – present)

Prior extracurricular mentorship: five undergraduates (two via Women in Science at Yale, 2014; three via goBlue, 2012 – 2014) and two high school students (one via ManyMentors, 2015; one via goBlue. 2013 - 2014).

### Workshop: "Try BiImage Suite Web, a modern and powerful software for neuroscience"

BRAINHACK NY 2020

Yale University  
2020

### Private Tutor: Basic Statistics & Data Science (1 student), Introduction to R (1 student)

Yale University  
2017 – 2020

### Workshop: "Introduction to BiImage Suite Web"

BRAINHACK YALE 2019

Yale University  
2019



## Workshop: "Intro to Machine Learning for fMRI with Nilearn"

BRAINHACK YALE 2018

Yale University  
2018

## Teaching Fellow

INTRODUCTION TO RELATIVITY (ASTR 180)

Yale University  
2018

## Teaching Fellow

NEUROBIOLOGY (MCDB/NSCI 320A/720A)

Yale University  
2015

# Ad Hoc Review & Editorial Membership

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Publons: <https://publons.com/researcher/4240950/stephanie-noble/peer-review/>

**Reviewer:** NeuroImage, NeuroImage: Clinical, Network Neuroscience, Cerebral Cortex, Human Brain Mapping, Proceedings of the National Academy of Sciences, eLife, eNeuro, Nature Scientific Reports, Social Cognitive and Affective Neuroscience, Psychiatry Research: Neuroimaging, Schizophrenia Bulletin, Behavior Change, Assessment

**Editor (Incoming):** OHBM Aperture

# Leadership






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<b>Brainhack OHBM 2021</b> Brainhack Diversity, Equity, & Justice Team Lead; Social Media Lead; Mentor	Spring 2021
<b>Brainhack Global 2020 Social</b> Lead Organizer	Fall 2020
<b>Neuromatch Conference 3.0</b> Moderator (4 traditional symposia, 1 interactive symposium)	Fall 2020
<b>Columbia University POR Colloquium</b> Invited Talk, Grant Funding Seminar	Fall 2020
<b>FIT'NG Flux Preconference Workshop</b> "Data Sharing" Breakout Session Moderator	Fall 2020
<b>YBDIC-PATHS Mentoring Program</b> Mentor	2020-2021
<b>OHBM 2020 Club Night</b> Social Lead Organizer	Summer 2020
<b>NIH Blueprint D-SPAN F99/K00 Webinar</b> Panelist <a href="https://www.ninds.nih.gov/News-Events/Events-Proceedings/Events/NIH-Blueprint-D-SPAN-F99K00-Webinar">https://www.ninds.nih.gov/News-Events/Events-Proceedings/Events/NIH-Blueprint-D-SPAN-F99K00-Webinar</a>	Winter 2019
<b>Brainhack Yale 2019</b> Lead Organizer and Workshop Instructor	
<b>Neuroscience Scholars Program</b> Leadership Meeting Panelist	Spring 2019
<b>Yale Annie Le Fellowship</b> Selection Committee Member	Summer 2019
<b>INP Diversity Recruitment Panel</b> Panelist and SWE Representative	Spring 2019
<b>Brainhack Networks 2019</b> Team of Experts	Spring 2019
<b>Yale Minority Scientists Research Network</b> Board Member	Winter 2019
<b>NIH Blueprint D-SPAN F99/K00 Twitter Q&amp;A</b> Panelist	Fall 2018
<b>Brainhack Yale 2018:</b> Lead Organizer and Workshop Instructor	Fall 2018
<b>Neuroscience Scholars Program</b> Neuroscience Leadership Conference Invited Member	Spring 2018
<b>INP Speaker Seminar</b> Committee Member	Summer 2017
<b>She Started It</b> "Women in Entrepreneurship" Panelist	Spring 2017
<b>McDougal Center</b> Communications Assistant (paid position managing student communications)	Spring 2017
<b>Yale Graduate Society of Women Engineers</b> Outreach Chair ('15-'17), Mentor, Volunteer, Panelist Led four outreach events, two networking/career building events (panelist)	Spring 2016 2014-2017

<b>Mind Matters</b> “Race and Mental Health” Panelist	
<b>Women in Science at Yale</b> Mentor and “Career Strategy” Panelist (‘14-‘16)	Spring 2016
<b>INP Outreach Committee</b> Chair (‘15-‘16), Volunteer (‘14-‘17), Speaker (‘16, ‘18 NIH BP-Endure) Led six outreach events per year (30-60 students per event)	2014-2018 2014-2016
<b>Yale Graduate Visual Artists Society</b> Founder (‘14) and Leader	
<b>Yale Office for Graduate Student Development and Diversity</b> Mentor	2014-2016
<b>La Casa Cultural</b> Mentor	2014-2017
<b>ManyMentors / New Haven Science Fair</b> Mentor	2014-2015
<b>Connectionism Art Movement</b> Founder and Event Organizer	2014-2015
<b>Princeton Biomedical Engineering Society</b> President (‘11-‘12), VP (‘10-‘11), Cofounder	2012-2014 2010-2012

## Open Science Contributions

Selected contributions (for full list, see <https://github.com/SNeuroble?tab=repositories>)

<b>Network-Based Statistic Extensions and Benchmarking Toolbox</b>  	<i>code</i> 2020
<a href="https://github.com/SNeuroble/NBS_benchmarking">https://github.com/SNeuroble/NBS_benchmarking</a>	
<b>Cluster-Based Inference Benchmarking Toolbox</b>	<i>code</i> 2019
<a href="https://github.com/SNeuroble/cluster_power_failure">https://github.com/SNeuroble/cluster_power_failure</a>	
<b>Yale Test-Retest Dataset</b>  	<i>data</i> 2018
<a href="http://fcon_1000.projects.nitrc.org/indi/retro/yale_trt.html">http://fcon_1000.projects.nitrc.org/indi/retro/yale_trt.html</a>	
<b>Multifactor ICC Toolbox</b> 	<i>code</i> 2018
<a href="https://github.com/SNeuroble/Multifactor_ICC">https://github.com/SNeuroble/Multifactor_ICC</a>	

## Skills

<b>Programming Languages</b>	<i>Data Analysis (intermediate-advanced):</i> Matlab, bash, R, Python <i>Software / Web Development (basic):</i> C++, JavaScript, CSS, HTML5, Qt
<b>Other</b>	<i>Languages (basic-intermediate):</i> Latin, Spanish <i>Visual Art (advanced):</i> Oil, watercolor, gouache, pastel, graphic design