

# Clara A. Sava-Segal

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## Education

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- 2020-Present**     **Dartmouth College**  
Ph.D. in Cognitive Neuroscience, Department of Psychological and Brain Sciences  
*Advisor: Emily S. Finn, Ph.D.*
- 2014-2018**     **The University of Chicago**  
*Bachelor's in Psychology & Comparative Human Development / Minor: Biology*  
*General Honors & Honors in Psychology*  
*Thesis Advisor: Daniel Casasanto, Ph.D.*  
*Thesis: Unconscious Processing of Approximate Number in the Human Visual System*

## Grants & Fellowships

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- 2024-2026**     **F31 Ruth L. Kirschstein Predoctoral Individual NRSA (National Research Service Award)**
- 2021-2024**     **National Science Foundation Graduate Research Fellowship (NSF GRFP)**
- 2014-2018**     **Presidential Scholar, University of Chicago**

## Awards

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- 2024**     **Marie A. Center 1982 Award for Excellence in Teaching**  
*Dartmouth College, Department of Psychological and Brain Sciences*
- 2024**     **Outstanding Graduate Student Teacher**  
*Dartmouth Center for Advancement of Learning*
- 2024**     **Neukom Travel Grant | \$1000**  
*Neukom Institute for Computational Science, Dartmouth College*
- 2024**     **Travel Grant | \$350**  
*Psychological and Brain Sciences Department, Dartmouth College*
- 2023**     **Outstanding Graduate Student Teacher**  
*Dartmouth Center for Advancement of Learning*
- 2023**     **Neukom Travel Grant | \$1000**  
*Neukom Institute for Computational Science, Dartmouth College*
- 2022**     **Neukom Travel Grant | \$1000**  
*Neukom Institute for Computational Science, Dartmouth College*
- 2022**     **Citation for Meritorious Performance**  
*Psychological and Brain Sciences Department, Dartmouth College*
- 2022**     **Graduate Student Award Winner, Cognitive Neuroscience Society**
- 2018**     **Psi Chi Research Award Winner**
- 2018**     **Milgrom Education Impact Fellowship**
- 2017**     **Crerar Science Writing Prize - 3rd Place**  
*Insight into the Evolutionary Purpose of Memory: Pairing Behavioral and Neurobiological Data*
- 2016-2017**     **Jeff Metcalf Scholar**
- 2014-2018**     **Dean's List, University of Chicago**

\* Denotes shared authorship; underline indicates trainee

1. Pinheiro-Chagas, P., **Sava-Segal, C.\***, Akkol, S.\*, Daitch, A., Parvizi, J. (2024). Spatiotemporal dynamics of successive activations across the human brain during a simple cognitive task. *Journal of Neuroscience*.
2. **Sava-Segal, C.**, Richards, C., Leung, M., Finn, E.S. (2023). Individual variability in neural event segmentation reflects stimulus content and interpretation. *Cerebral Cortex*.
3. Liu, N.\*, Pinheiro-Chagas, P.\*, **Sava-Segal, C.**, Kastner, S., Chen, Q., Parvizi, J. (2021). Overlapping Neuronal Population Responses in the Human Parietal Cortex during Visuospatial Attention and Arithmetic Processing. *Journal of Cognitive Neuroscience*.
4. Veit, M.J., Kucyi, A., Hu, W., Zhang, C., Zhao, B., Guo, Z., Yang, B., **Sava-Segal, C.**, Perry, C., Zhang, J., Zhang, K., Parvizi, J. (2021). Temporal order of signal propagation within and across intrinsic brain networks. *Proceedings of the National Academy of Sciences (PNAS)*.
5. Brookshire, G., Mangelsdorf, H., **Sava-Segal, C.**, Perry, C., Zhang, J., Zhang, K., Parvizi, J. (2021). Reis, K., Nusbaum, H., Goldin-Meadow, S., Casasanto, D. (2021). Expertise modulates neural stimulus-tracking in frontal but not occipital cortex. *eNeuro*.
6. Parvizi, J., Braga, R., Kucyi, A., Veit, M.J., Pinheiro-Chagas, P., Perry, C.M., **Sava-Segal, C.**, Zeineh, M.M., van Staalduinen, E.K., Henderson, J.M., Markert, M. (2021). Altered Sense of Self During Seizures in the Posteromedial Cortex. *Proceeding of the National Academy of Sciences (PNAS)*.
7. Akkol, S., Kucyi, A., Hu, W.H., Zhao, B., Zhang, C., **Sava-Segal, C.**, Liu, S., Razavi, B., Zhang, J., Zhang, K., Parvizi, J. (2021). Intracranial electroencephalography reveals selective task-evoked responses and resting state connectivity of periventricular heterotopias. *Journal of Neuroscience*.
8. Vesuna, S.\*, Kauvar, I.\*, Gore, F., Oskotsky, T., **Sava-Segal, C.**, Henderson, J.M., Nuyujukian, P., Parvizi, J., Deisseroth, K. (2020). Deep posteromedial cortical rhythm underlying dissociation. *Nature*, 586, 87-94.
9. Lucero, C., Brookshire, G., **Sava-Segal, C.**, Bottini, R., Goldin-Meadow, S., Vogel, E.K., Casasanto, D. (2020). Unconscious Number Discrimination in the Human Visual System. *Cerebral Cortex*, 30(11), 5821-5829.
10. Sun, Y., Liu, X., Li, B., **Sava-Segal, C.**, Wang, A., Zhang, M. (2020). Effects of Repetition Suppression on Sound Induced Flash Illusion with Aging. *Frontiers in Psychology*, 11, 216.
11. Wang, A., Sang, H., He, J., **Sava-Segal, C.**, Tang, X., Zhang, M. (2019). The Effects of Cognitive Expectation on Sound-induced Flash Illusion. *Perception*, 48(12), 1214-1234.
12. Wang, C.-Z., Hou, L., Wan, J.Y., Yao, H., Yuan, J., Zeng, J., Park, C.-W., Kim, S.H., Seo, D.-B., Shin, K.-S., Zhang, C.-F., Chen, L., Zhang, Q.-H., Liu, Z., **Sava-Segal, C.**, Yuan, C.S. (2018). Ginseng berry polysaccharides on inflammation-associated colon cancer: Inhibiting T cell differentiation, promoting apoptosis, and enhancing the effects of 5-fluorouracil. *Journal of Ginseng Research*, 44(2), 282-290.
13. Yao, H., Wan, J.Y., Zeng, J., Huang, W.-H., **Sava-Segal, C.**, Li, L., Niu, X., Wang, Q., Wang, C.-Z., Yuan, C.S. (2018). Effects of compound K, an enteric microbiome metabolite of ginseng, in the treatment of inflammation associated colon cancer. *Oncology Letters*, 15(6), 8339-8348.
14. Wang, C.-Z., Yao, H., Zhang, C.-F., Chen, L., Wan, J.Y., Huang, W.-H., Zeng, J., Zhang, Q.-H., Liu, Z., Yuan, J., Bi, Y., **Sava-Segal, C.**, Du, W., Xu, M., Yuan, C.S., (2018). American ginseng microbial metabolites attenuate DSS-induced colitis and abdominal pain. *International Immunopharmacology*, 64:246-251.
15. Wan, J.Y., Huang, W.-H., Zheng, W., Park, C.W., Kim, S.H., Seo, D.B., Shin, K.S., Zeng, J., Yao, H., **Sava-Segal, C.**, Wang, C.-Z., Yuan, C.S. (2017). Multiple Effects of Ginseng Berry Polysaccharides: Plasma Cholesterol Level Reduction and Enteric Neoplasm Prevention. *American Journal of Chinese Medicine*. 45(06), 1293-1307.

## Conference Proceedings

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\* Denotes shared authorship; underline indicates trainee

1. **Sava-Segal, C.**, Finn, E.S. (2024). Self- Versus Other-Generated Interpretations of Ambiguous Social Stimuli are Asymmetrically Remembered. Accepted to *Proceedings of the 8th Annual Conference on Cognitive Computational Neuroscience*.
2. Benson, T., **Sava-Segal, C.**, Finn, E.S. (2024). Valence, but Not Content, of Narrative Interpretations of Naturalistic Stimuli are Predicted by Personality Traits. Accepted to *Proceedings of the 8th Annual Conference on Cognitive Computational Neuroscience*.

## Academic Talks

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1. **Sava-Segal, C.\***, Benson, T., Finn, E.S. (Oct. 2024). Nanosymposium on Neural Bases of Human Social Cognition and Connection, Society for Neuroscience (SfN). *Real-world social inputs trigger shifts in neural activity patterns and reinterpretations of ambiguous stimuli*.
2. **Sava-Segal, C.\*** (April. 2024). Invited Lab Meeting, Section on Learning and Plasticity (PI – Chris Baker) NIH. *Cognitive and neural mechanisms underlying the subjective interpretations of complex experiences*.
3. **Sava-Segal, C.\*** (Jan. 2024). Invited Lab Meeting, IMPACT Lab (PI - Chujin Lin), UCSD. *Cognitive and neural mechanisms underlying the subjective appraisal of complex experiences*.
4. **Sava-Segal, C.\*** Grall, C., Bartolino, K., Equita, J., Benson, T., Finn, E.S. (July 2023). Oral Presentation at Organization of Human Brain Mapping, Montreal, CA. *Narrative ‘twists’ shift neural representations*.
5. **Sava-Segal, C.\*** (April 2023, May 2023). Cognitive Brown Bag Talk Series and Social Area Talk Series at Dartmouth College, NH. *Shifting interpretations of ambiguous naturalistic images*.
6. **Sava-Segal, C.\*** (November 2022). Invited Lab Meeting Baldassano and Aly Lab Meeting at Columbia University, NY. *Individual variability in neural event segmentation reflects stimulus content and interpretation*.
7. **Sava-Segal, C.\*** (August 2022). Text Analysis (Natural Language Processing) Meeting at Dartmouth College, Hanover, NH. *(Re)appraisal of ambiguous stimuli*.
8. **Sava-Segal, C.\*** (March 2022). Invited Lab Meeting – Whifield-Gabrieli Lab at Northeastern U., Boston, MA. *Individual variability in neural event segmentation reflects stimulus content and interpretation*.
9. **Sava-Segal, C.\*** (August 2021). Invited Lab Meeting University of Chicago Psychology Dept., Chicago, IL. *Exploring Idiosyncrasies in the Appraisal of Naturalistic Events*.

## Academic Posters

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\*Denotes presenter; underline indicates trainee

1. **Sava-Segal, C.\***, Benson, T., Finn, E.S. (2024). Multivariate neural pattern changes reflect within-subject shifts in subjective interpretations. Presentation accepted at *Organization for Human Brain Mapping*, Seoul, Korea.
2. **Sava-Segal, C.\***, Benson, T., Finn, E.S. (2024). Multivariate neural pattern changes reflect within-subject shifts in subjective interpretations. Presentation at *Social Affective Neuroscience Society*, Toronto, CA.
3. Benson, T., **Sava-Segal, C.\***, Finn, E.S. (2024). Positive or ruminative: How traits shape sentiment and appraisal of ambiguous stimuli. Presentation at *Society for Personality and Social Psychology*, San Diego, CA.
4. Uruñuela, E., **Sava-Segal, C.\***, Leung, M., Finn, E.S., Caballero-Gaudes, C. (2023). A Multi-Subject Deconvolution Algorithm for the Analysis of Naturalistic fMRI Data. Presentation at *ISMRM Iberian Chapter 3rd Annual Meeting*.
5. **Sava-Segal, C.\***, Grall, C., Bartolino, K., **Bloch, E.**, Equita, J., Benson, T., Finn, E.S. (2023). Narrative ‘twists’ shift neural representations. Presentation at *Organization of Human Brain Mapping*, Montreal, CA.

6. **Sava-Segal, C.\***, Finn, E.S. (2023). Shifting interpretations of multistable, “naturalistic” stimuli. Presentation at *Cognitive Neuroscience Society*, San Francisco, CA.
7. **Sava-Segal, C.\***, Finn, E.S. (2022). Individual variability in neural event segmentation reflects stimulus content and interpretation. Presentation at the *Organization of Human Brain Mapping*, Glasgow, UK.
8. **Sava-Segal, C.\***, Zhang, C., Zhao, B., Kucyi, A., Tao, A., Ko, H.J., Yih, J., Parvizi, J. (2022). Direct cortical recordings in the human brain during race categorization of faces. Presentation at *Cognitive Neuroscience Society*, San Francisco, CA.
9. Pinheiro-Chagas, P., **Sava-Segal, C.**, Akkol, S., Braga, R., Daitch, A., Parvizi, J. (2022). Successive ignition of cortical sites across the human brain during arithmetic processing. Presentation at *Cognitive Neuroscience Society*, San Francisco, CA.
10. **Sava-Segal, C.\***, Finn, E.S. (2021). Exploring the role of event boundaries in idiosyncratic memory formation. Presentation at the *Organization of Human Brain Mapping*, virtual.
11. Brookshire, G.\*, Mangelsdorf, H.H., **Sava-Segal, C.**, Reis, K., Nusbaum, H., Goldin-Meadow, S., Casasanto, D. (2021). Expertise modulates neural tracking of dance and sign language. Poster presented at *2021 meeting of the Cognitive Science Society*.
12. Rauschecker, A., **Sava-Segal, C.\***, Liu, S., Na, R., Raccach, O., Parvizi, J. (2020). (2021). Effects of stimulus properties and task on electrophysiological dynamics in the human visual word form area. Presentation at *Cognitive Neuroscience Society* (virtual), Boston, MA.
13. Pinheiro-Chagas, P.\*, **Sava-Segal, C.**, Akkol, S., Daitch, A. L., Parvizi, J. (2019). Spatiotemporal dynamics of arithmetic processing in the human brain. Presentation at *Society for Neuroscience*, Chicago, IL.
14. Braga, R.B.\*, **Sava-Segal, C. A.**, Poldrack, R. A., Parvizi, J. (2019). Fast temporal characterization of distributed association networks within the individual using intracranial recording and repeated sampling functional MRI. Presentation at *Society for Neuroscience*, Chicago, IL.
15. **Sava-Segal, C.\***, Lucero, C., Casasanto D. (2018). Unconscious Processing of Approximate Number in the Human Visual System. Poster presented at *Ninetieth Annual Midwestern Psychological Association*, Chicago, IL.
16. **Sava-Segal, C.\***, Lucero, C., Casasanto D. (2018). Unconscious Processing of Approximate Number in the Human Visual System. Poster presented at *Chicago Area Undergraduate Research Symposium*, Chicago, IL.
17. **Sava-Segal, C.\***, Lucero, C., Casasanto D. (2018). Using Steady-State Visually Evoked Potentials to Determine a Neural Basis for the Unconscious Processing of Approximate Number Sense. Poster presented at *UCISTEM Undergraduate Research Symposium*, Chicago, IL.

## Relevant Research Training

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<b>2020-Present</b>	<b>Graduate Student   Functional Imaging &amp; Naturalistic Neuroscience Lab</b> Psych. & Brain Sciences Dept.   Dartmouth College <i>PI: Emily Finn, PhD</i>
<b>2018-2020</b>	<b>Lab Manager/Research Assistant   Lab. of Behavioral &amp; Cognitive Neuroscience</b> Neurology Dept.   Stanford University <i>PI: Josef Parvizi, MD, PhD</i>
<b>2015-2018</b>	<b>Undergraduate Research Assistant   Experience &amp; Cognition Lab</b> Department of Psychology   University of Chicago <i>PI: Daniel Casasanto, PhD</i>
<b>2017-2018</b>	<b>Undergraduate Research Assistant   Awh Vogel Lab</b> Department of Psychology/ Institute of Mind and Biology   University of Chicago <i>PIs: Edward Vogel, PhD &amp; Edward Awh, PhD</i>

<b>2017-2018</b>	<b>Undergraduate Research Assistant   Parkinsonian &amp; Neurodegenerative Diseases Lab</b> Neurology Dept., University of Chicago <i>PI: Christopher Gomez, MD, PhD</i>
<b>2016-2018</b>	<b>Medical Editor/Research Assistant</b> Department of Anesthesia & Critical Care   University of Chicago <i>PIs: Chun-Su Yuan, MD &amp; Chong-Zhi Wang, PhD</i>
<b>Sept-Dec '16</b>	<b>Research Intern   Perception &amp; Action Group, Institut Neurosciences Cognition</b> Université Paris Descartes <i>PI: Véronique Izard, PhD</i>
<b>July-Sept '15</b>	<b>Summer Research Assistant   Social Perception &amp; Evaluation Lab</b> Psychology Dept   NYU <i>PI: Jay Van Bavel, PhD</i>

### Additional Research Training

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<b>2022</b>	<b>Neurohackademy   Seattle, WA</b>
<b>2021</b>	<b>Neuromatch Academy, Computational Neuroscience Course   Virtual</b>
<b>2019</b>	<b>Conte Center for Active Sensing Retreat   Columbia University, NYC</b>

### Academic Teaching Experience

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*\*Denotes full course design and lecturing*

<b>2024, Spring</b>	<b>Study Leader   Brain and Behavior 2 – How do we process the world around us?*</b> <i>Osher Lifelong Learning Institute, Dartmouth College</i>
<b>2023, Fall</b>	<b>Teaching Assistant   PSYC 6: Introduction to Neuroscience</b> Guest Lecture: Molecular mechanisms of memory <i>Awarded: Outstanding Graduate Student Teacher</i>
<b>2023, Winter</b>	<b>Teaching Assistant   PSYC 6: Introduction to Neuroscience</b> Guest Lecture: The resting brain, attention, and consciousness <i>Awarded: Outstanding Graduate Student Teacher</i>
<b>2023, Winter</b>	<b>Study Leader   Brain and Behavior – How are they linked?*</b> <i>Osher Lifelong Learning Institute, Dartmouth College</i>
<b>2022, Fall</b>	<b>Study Leader   Brain and Behavior – How are they linked?*</b> <i>Osher Lifelong Learning Institute, Dartmouth College</i>
<b>2022, Fall</b>	<b>Teaching Assistant   PSYC 6: Introduction to Neuroscience</b> Guest Lecture: Memory systems <i>Guest Lecture: Molecular mechanisms of Learning and Memory</i>
<b>2022, Spring</b>	<b>Teaching Assistant   PSYC 11: Experimental Psychology</b> <i>Department of Psychological and Brain Sciences, Dartmouth College</i>
<b>2018</b>	<b>Teaching Assistant   Core Biology: Neurobiology</b> <i>University of Chicago</i>

### Academic Service

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<b>2022-Present</b>	<b>Member   Survey Committee (Dartmouth PBS)</b>
<b>2022-2024</b>	<b>Co-organizer   Cognitive Brown Bag Talk Series (Dartmouth PBS)</b>



## External Service & Community Teaching Experience

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2020-Present	<b>Mentor</b>   Project SHORT
2022	<b>Judge</b>   New Hampshire Science and Engineering Fair
2021, 2022	<b>Teacher</b>   Skype a Scientist (zoom)
2021	<b>Guest Speaker</b>   Women in Science Club   Stuyvesant High School, NYC (zoom)
2021	<b>Guest Speaker</b>   Global Youth Economics Symposium   Hunter High School, NYC (zoom)
2019-2020	<b>Teacher</b>   Chicago and Stanford Splash <i>Course 1. How do Humans Learn; Course 2: Introduction to the Mind</i>
2019-2020	<b>Mentor</b>   San Jose High School (iMentor Bay Area)
2017-2018	<b>Milgrom Education Impact Fellow</b>   Gary Comer College Prep
2015-2018	<b>Leadership Council Member</b>   University of Chicago Careers in Education
2015-2016	<b>Corps Member</b>   Jumpstart Early Childhood Program

## Educational Material Development

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2020-2023	<b>Pre-Grad Resource Development Subcommittee Member</b>   Project SHORT
2017-2019	<b>Content Creator</b>   OCEANA Optimization of the Capabilities to Engage and Acquire, using Neuroscientific methods <i>Donders Institute for Brain, Cognition and Behavior</i>
2016-2019*	<b>App Developer</b>   iOS Education App Microbiology <i>*sold</i>

## Reviewing

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*Imaging Neuroscience; Behavioral Neuroscience; Proceedings on Cognitive Computational Neuroscience (CCN)*

## Mentorship

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2024-Present	<b>Eli Bailit</b>   Undergraduate Research Assistant <i>Fellowship(s): Undergraduate Research Assistantship (UGAR; 2 terms)</i>
2024-Present	<b>David Igbalajobi</b>   Undergraduate Research Assistant
2024-Present	<b>Isaac Wells</b>   Undergraduate Research Assistant
2022-Present	<b>Sofia Yawand-Wossen</b>   Undergraduate Research Assistant (Thesis Student) <i>Fellowship(s): Undergraduate Research Assistantship (UGAR; 3 terms)</i>
2022-2024	<b>Tory Benson</b>   Full-time Research Assistant/ Lab Manager Project: Valence, but Not Content, of Narrative Interpretations of Naturalistic Stimuli are Predicted by Personality Traits
2022-2024	<b>Evan Bloch</b>   Undergraduate Research Assistant (Thesis Student) Project: People with higher depressive tendencies are more idiosyncratic in their event boundaries <i>Fellowship(s): Undergraduate Research Assistantship (UGAR; 4 terms)</i>
2021-2024	<b>Megan Leung</b>   Undergraduate Research Assistant <i>Fellowship(s): James O. Freedman Presidential Scholar (3 terms); Undergraduate Research Assistantship (UGAR; 2 terms)</i>
2023	<b>Robin Sandell</b>   Post-Grad Research Assistant
2022	<b>Payton Weiner</b>   Undergraduate Research Assistant <i>Fellowship(s): Undergraduate Research Assistantship (UGAR; 2 terms)</i>

## Technical and language skills

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- **Programming:**
  - Extensive experience with Python, MATLAB, R, JsPsych
  - Experience with JavaScript, HTML
- **Neuroscience and Psychology:**
  - Extensive experience with fMRI, iEEG data collection and analysis
  - Experience with intracranial electrical stimulation, scalp EEG, eye tracking
  - Additional: TMS training, wet lab, and animal handling techniques
- **Language:**
  - Bilingual Proficiency: English, Romanian
  - Professional Working Proficiency: Spanish, French
  - Elementary Working Proficiency: German