Stephanie M Noble

ASSISTANT PROFESSOR · COMPUTATIONAL NEUROSCIENCE

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Academic Appointments

Assistant Professor, Northeastern University
Boston MA

DEPARTMENT OF PSYCHOLOGY
DEPARTMENT OF BIOENGINEERING
CENTER FOR COGNITIVE AND BRAIN HEALTH

July 2023 – present

Research Affiliate, Yale University
New Haven CT

RADIOLOGY & BIOMEDICAL IMAGING

July 2023 – present

Postdoctoral Associate, Yale University
New Haven CT

RADIOLOGY & BIOMEDICAL IMAGING

Aug. 2019 – June 2023

- Advisor: Dustin Scheinost

Education

PhD, Yale University
New Haven CT

INTERDEPARTMENTAL NEUROSCIENCE PROGRAM (INP)

Sept. 2014 – May 2019

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

BSE, Princeton University
Princeton NJ

CHEMICAL & BIOLOGICAL ENGINEERING: BIOTECHNOLOGY & BIOINFORMATICS TRACK
HONORS CERTIFICATE IN QUANTITATIVE & COMPUTATIONAL NEUROSCIENCE
CERTIFICATE IN ENGINEERING BIOLOGY

Sept. 2008 – May 2012

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

Experience

Elite Warrior Identification, LLC
Arlington VA

INDEPENDENT CONSULTANT:

Mar. 2022 – Present

- EEG connectivity analysis and machine learning

Source Signal Imaging, LLC
San Diego CA

INDEPENDENT CONSULTANT

Oct. 2013 – Aug 2014

- Research and prototyping for EEG source estimation projects

goBlue Labs, LLC
New Haven CT

FOUNDING CHIEF SCIENCE OFFICER (CSO)

2012 – 2013

- Real-time EEG source estimation and neurofeedback software

Grants

2022 - 2024	**NIH R00MH130894:** Empirical Power Analysis Tool for fMRI *Principle Investigator*: Stephanie Noble *Funding Source*: National Institute of Mental Health BRAIN Initiative Advanced Postdoctoral Career Transition Award to Promote Diversity (K99/R00) *Amount*: $249,000
2022 - 2024	**NIH K99MH130894:** Empirical Power Analysis Tool for fMRI *Principle Investigator*: Stephanie Noble *Funding Source*: National Institute of Mental Health BRAIN Initiative Advanced Postdoctoral Career Transition Award to Promote Diversity (K99/R00) *Amount*: $122,677
2019 - 2023	**NIH K00MH122372:** Constrained Network-Based Multiple Comparison Correction *Principle Investigator*: Stephanie Noble *Funding Source*: National Institute of Mental Health NIH Blueprint Diversity Specialized Predoctoral to Postdoctoral Advancement in Neuroscience Award (F99/K00) *Amount*: $241,540
2018 - 2019	**NIH F99NS108557:** Improving Reliability and Validity of fMRI Statistical Methods *Principle Investigator*: Stephanie Noble *Funding Source*: National Institute of Neurological Disorders and Stroke NIH Blueprint Diversity Specialized Predoctoral to Postdoctoral Advancement in Neuroscience Award (F99/K00) *Amount*: $43,497
2016 - 2018	**NSF DGE1122492** *Fellow*: Stephanie Noble *Funding Source*: National Science Foundation Graduate Research Fellowship Program *Amount*: $92,000

Honors & Awards

RESEARCH

2019	**Abstract Merit Award,** Organization for Human Brain Mapping, $2,000 (15 awardees)
2019	**Associate Member Nomination**, Sigma Xi
2018 - 2019	**Program for Excellence in Science Fellowship**, AAAS / Science
2018	**Annie Le Fellowship**, Yale University (stipend & professional enrichment supplement; academic excellence and service to the community)
2017	**Qualified for Candidacy with Distinction**
2016	**Best Poster Award**, Yale Biomedical Engineering Retreat
2015 - 2017	**Neuroscience Scholars Program Fellowship**, Society for Neuroscience (15 awardees, support for society meeting attendance, society membership, professional enrichment funds)
2012	**Honors Certification in Quantitative & Computational Neuroscience**

| 2010 | **Siebel Energy Grand Challenges Fellowship**, Princeton University, $4,500 |
| 2009 - 2012 | **Howard Hunt Garmany Memorial Scholarship**, Hartford Foundation for Public Giving (awarded annually) |

OUTREACH

| 2016 | **WE16 Outreach Award**, Society of Women Engineers (to Yale GradSWE; outreach co-chair) |
| 2016 | **Seton Elm-Ivy Award**, The Community Foundation for Greater New Haven (to INP Outreach; co-chair) |

INDUSTRY

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

Publications

H-index=20, Accepted=40, First Author=8, Last Author=1, Google Scholar: https://scholar.google.com/citations?user=JxQdvn4AAAAJ

* = all authors contributed equally

Accepted

1. Rosenblatt, M.., Tejavibulya, L., Jiang, R., **Noble, S.**, Scheinost, D. Accepted. The effects of data leakage on neuroimaging predictive models. (Preprint: https://osf.io/ptuwe). Nature Communications.

2. Camp, C.C., **Noble, S.**, Scheinost, D, Stringaris, A., Nielson, D.M. 2023. Test-retest reliability of functional connectivity in depressed adolescents. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging. https://www.medrxiv.org/content/10.1101/2022.10.11.22280962v1

3. Sun, H., Jiang, R., Dai, W., Dufford, A.J., **Noble, S.,** Gu, S., Spann, M., Scheinost, D. 2023. Network controllability of structural connectomes in the neonatal brain.

4. Dadashkarimi, J., Karbasi, A. Liang, Q., Rosenblatt, M., **Noble, S.**, Foster, M., Rodriguez, R., Adkinson, B., Ye, J., Sun, H., Camp, C., Farruggia, M., Tejavibulya, L., Dai, W., Jiang, R., Pollatou, A., Scheinost, D. (Accepted). Cross Atlas Remapping via Optimal Transport (CAROT): Creating connectomes for any atlas when raw data is not available. *Medical Image Analysis (MEDIA).* Preprint: https://www.biorxiv.org/content/10.1101/2022.07.19.500642v2

5. Ye, J., Sun, H., Gao, S., Dadashkarimi, J., Rosenblatt, M., Rodriguez, R.X., Mehta, S., Jiang, R., **Noble, S.**, Westwater, M.L., Scheinost, D., 2023. Altered Brain Dynamics across Bipolar Disorder and Schizophrenia during Rest and Task-switching Revealed by Overlapping Brain States*. Biological Psychiatry.* Preprint: https://www.medrxiv.org/content/10.1101/2022.10.07.22280835v1

6. Rosenblatt, M.., Rodriguez, R., Westwater, M. Horien, C., Greene, A., Constable, R.T., **Noble, S.**, Scheinost, D., 2023. Connectome-based machine learning models are vulnerable to subtle data manipulations. *Cell Patterns.* Preprint: https://osf.io/ptuwe

7. Jiang, R., **Noble, S.,** Sui, J., Yoo, K., Rosenblatt, M., Horien, C., Qi, S., Liang, Q., Sun, H., Calhoun, V.D., Scheinost, D. 2023. Associations of physical frailty with health outcomes and brain structure in 483,033 middle-aged and older adults from the UK Biobank. *The Lancet Digital Health.*

8. Shinn, M., Hu, A., Turner, L., **Noble, S.**, Achard, S., Anticevic, A., Scheinost, D., Constable, R.T., Lee, D., Bullmore, E.T., Murray, J.D. 2023. Functional brain networks reflect spatial and temporal autocorrelation. *Nature Neuroscience*. Preprint: https://www.biorxiv.org/content/10.1101/2021.06.01.446561v1

9. Yang, G., Bozek, J., **Noble, S.**, Han, M., Wu, X., Xue, M., Kang, J., Jia, T., Fu, J., Ge, J., Cui, Z., Li, X., Feng, J., Gao, J. 2023. Global diversity in individualized cortical network topography. *Cerebral Cortex*.

10. Rodriguez, R., **Noble, S.**, Tejavibulya, L., Scheinost, D. 2022. Leveraging edge-centric networks complements existing network-level inference for functional connectomes. *NeuroImage*.

11. Scheinost, D., Pollatou, A., Dufford, A.J., Jiang, R., Farruggia, M.C., Rosenblatt, M., Peterson, H., Rodriguez, R.X., Dadashkarimi, J., Liang, Q., Dai, W., Foster, M.L., Camp, C.C., Tejavibulya, L., Adkinson, B.D., Sun, H., Ye, J., Cheng, Q., Spann, M.N., Rolison, M., **Noble, S.***, Westwater, M.L.* 2022. Machine learning and prediction in fetal, infant, and toddler neuroimaging: a review and primer. *Biological Psychiatry*.

12. Dai, W., **Noble, S**., & Scheinost, D. 2022. The Semi-constrained Network-Based Statistic (scNBS): Integrating Local and Global Information for Brain Network Inference. *Medical Image Computing and Computer Assisted Intervention (MICCAI).*

13. Jiang, R., Westwater, M.L., **Noble, S.,** Rosenblatt, M., Dai, W., Qi, S., Sui, J., Calhoun, V.D., Scheinost, D. 2022. Associations between grip strength, brain structure, and mental health in> 40,000 participants from the UK Biobank. *BMC Medicine*.

14. **Noble, S.,** Mejia, M., Zalesky, A., Scheinost, D. 2022. Improving power in functional magnetic resonance imaging by moving beyond cluster-level inference. *Proceedings of the National Academy of Sciences*. Preprint: https://www.biorxiv.org/content/10.1101/2021.09.23.461354v1

15. Greene, A.S., Shen, X.., **Noble, S.**, Hahn, A., Arora, J., Tokoglu, F., Spann, M.N., Barron, D.S., Sanacora, G., Srihari, V.H., Woods, S.W., Scheinost, D., Constable, R.T. 2022. Individuals who defy stereotypical profiles require distinct brain-phenotype models. *Nature*.

16. Jiang, R., Calhoun, V.D., **Noble, S.,** Sui, J., Liang, Q., Qi, S., Scheinost, D. 2022. A functional connectome signature of blood pressure in> 30 000 participants from the UK biobank. *Cardiovascular Research*.

17. Tejavibulya, L., Rolison, M., Gao, S., Liang, Q. Peterson, H., Dadashkarimi, J., Farruggia, M., Hahn, A.C., **Noble, S.**, Lichenstein, S.D., Pollatou, A., Dufford, A.J., Scheinost, D. 2022. Predicting the future of neuroimaging predictive models in psychiatry. *Molecular Psychiatry*.

18. Horien, C., Floris, D.L., Greene, A.S., **Noble, S.**, Rolison, M., Tejavibulya, L., O'Connor, D., McPartland, J.C., Scheinost, D., Chawarska , K., Lake, E.M., Constable, R.T. 2022. Functional connectome-based predictive modelling in autism. *Biological Psychiatry*.

19. Tejavibulya, L., Peterson, H., Greene, A., Gao, S., Rolison, M., **Noble, S.**, Scheinost, D. 2022. Large-scale differences in functional organization of left- and right-handed individuals using whole-brain, data-driven analysis of connectivity. NeuroImage.

20. Horien, C., Lee, K., Westwater, M., **Noble, S.**, Tejavibulya, L., Kayani, T., Constable, R.T., Scheinost, D. 2021. A protocol for working with open-source neuroimaging datasets. *STAR Protocols*.

21. Dufford, A.J., **Noble, S.**, Gao, S., Scheinost, D. 2022. The instability of functional connectomes across the first year of life. *Developmental Cognitive Neuroscience*. Preprint: https://doi.org/10.1101/2021.04.14.439877

22. Ibrahim, K., **Noble, S.**, He, G., Lacadie, C., Crowley, M.J., McCarthy, G., Scheinost, D., and Sukhodolsky, D.G. 2021. Large-Scale Functional Brain Networks of Maladaptive Childhood Aggression Identified by Connectome-Based Predictive Modeling. *Molecular Psychiatry*.

23. 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. 2021. Eliminating accidental deviations to minimize generalization error and maximize reliability: applications in connectomics and genomics. *PLOS Computational Biology*. Preprint: https://www.biorxiv.org/content/10.1101/802629v7

24. 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. *Gigascience*. (Preprint: https://doi.org/10.31234/osf.io/vj5tu)

25. **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*. (*Invited Review, Deep Imaging Special Issue*).

26. Gau, R.*, **Noble, S.*,** Heuer, K.*, Bottenhorn, K.*, Bilgin, I.P.*, Yang, Y.*, Huntenburg, J.*, Bayer, J.M.M.*, Bethlehem, R.*, … Brainhack community. 2021. Brainhack: developing a culture of open, inclusive, community-driven neuroscience. *Neuron*. Preprint: https://psyarxiv.com/rytjq/

27. 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*. Preprint: https://www.biorxiv.org/content/10.1101/638825v1

28. 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*.

29. **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)*, Proceedings, Part VII 23, 458-468.

30. 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.

31. **Noble, S.**, Scheinost, D., & Constable, R. T., 2020. Cluster failure or power failure? Evaluating sensitivity in cluster-level inference. *NeuroImage* 209, 116468.

32. **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.

33. 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.

34. 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.

35. 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*.

36. 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*.

37. 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.

38. **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.

39. **Noble, S.**, Scheinost, D., Finn, E.S., Shen, X., Papademetris, X., McEwen, S.C., Bearden, C.E., Addington, J., Goodyear, B., … Cannon, T.D., Constable, R.T., 2017b. Multisite reliability of MR-based functional connectivity. *NeuroImage* 146, 959-970.

40. 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., Constable, R.T., Bookheimer, S.Y., 2017. Presurgical language fMRI: mapping of six critical regions. *Human Brain Mapping* 38, 4239-4255.

41. 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

42. Rosenblatt, M.., Tejavibulya, L., Camp, C., Jiang, R., Westwater, M., **Noble, S.**, Scheinost, D. Power and reproducibility in the external validation of brain-phenotype predictions.

43. Adkinson, B.D., Rosenblatt, M., Dadashkarimi, J., Tejavibulya, L., Jiang, R., **Noble, S.,** Scheinost, D. Brain-phenotype predictions can survive across diverse real-world data.

44. **Noble, S.*,** Curtiss, J.*, Pessoa, L., Scheinost, D. The tip of the iceberg: a call to embrace anti-localizationism in human neuroscience research. (Preprint: https://osf.io/preprints/psyarxiv/9eqh6)

45. Bridgeford, E. W., Powell, M., Kiar, G., **Noble, S.**, Chung, J., Panda, S., Lawrence, R., Priebe, C.E., Caffo, B., Xu, T., Milham, M., Vogelstein, J. T. A Causal Perspective for Batch Effects: when is no answer better than a wrong answer? (Preprint: https://www.biorxiv.org/content/10.1101/2021.09.03.458920v4)

46. Mansour, S., Seguin, C., Winkler, A., **Noble, S.,** Zalesky, A. Topological Cluster Statistic (TCS): Towards structural-connectivity-guided fMRI cluster enhancement. (Preprint: https://www.researchsquare.com/article/rs-2059418/v1)

47. Rosenblatt, M., Mehta, S., Peterson, H., Dadashkarimi, J., Rodriguez, R.X., Foster, M.L., Adkinson, B.D., Liang, Q., Kimble, V.M., Ye, J., McCusker, M.C., Farruggia, M.C., Rolison, M., Westwater, M.L., Jiang, R., **Noble, S.,** Scheinost, D. Trends in self-citation rates in neuroscience literature. (Preprint: https://www.biorxiv.org/content/10.1101/2022.09.27.509533v1)

Selected Media

48. Interviewed by Lloyd, N. 2023. Psychology professor building 'data science tool' to increase the reliability of human brain research. Northeastern Global News. https://cos.northeastern.edu/news/psychology-professor-building-data-science-tool-to-increase-the-reliability-of-human-brain-research/

49. Interviewed by Locklear, M. 2022. To better understand the brain, look at the bigger picture. YaleNews. https://news.yale.edu/2022/08/04/better-understand-brain-look-bigger-picture

50. Interviewed by 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://whyy.org/segments/scientists-used-fmri-to-study-brain-activity-for-years-now-some-question-the-results-reliability/

51. Interviewed by Proff, I., 2020. Can brain scans transform psychiatry? Medium. https://medium.com/@irisproff/can-brain-scans-transform-psychiatry-963ff2e5fb4f

52. Interviewed by 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/

Acknowledgements

53. 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").

54. 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.

Presentations

1. **Noble, S.**, (2023). Invited Keynote: Making open science work for you. *Advanced Computational Neuroscience Network (ACNN) Big Data Neuroscience Workshop.*

2. **Noble, S.**, (2023). Invited Workshop: Making open science work for you: Tools for Reproducible Neuroscience. *Advanced Computational Neuroscience Network (ACNN) Big Data Neuroscience Workshop.*

3. **Noble, S.**, (2023). Invited Symposium: Paths to increased brain-behavior reproducibility. Speakers: Nico Dosenbach (organizer), Stephanie Noble, Scott Marek, Thomas Yeo, Russ Poldrack. *Cognitive Neuroscience Society Meeting*.

4. **Noble, S.** (2022). Diversity, equity, and inclusion initiatives across the human brain mapping community. *TransMedTech Institute Grand Conference Series*.

5. **Noble, S.** (2021). Leveling Up: Improving power in functional connectivity by moving beyond cluster-level inference. *Innovators in Cognitive Neuroscience*. Recording: https://www.youtube.com/watch?v=lm80J8-dbS0

6. **Noble, S.** (2020). The constrained network-based statistic: A new level of inference for neuroimaging. *NIH BRAIN Initiative Alliance's Tools, Tech, Theory and Trainee Series* and *Neuromatch Conference 3.0.*

Invited Seminars

7. **Noble, S.** (2023). Empirical effect size guidelines for typical fMRI studies. *Developmental Cognition & Neuroimaging Lab, Masonic Institute for the Developing Brain, University of Minnesota*.

8. **Noble, S.** (2023). Empirical effect size guidelines for typical fMRI studies. *COBRE Behavior and Neurodata Core, Brown University*.

9. **Noble, S.** (2022). From fundamental principles towards precision neuroscience. *Department of Electrical and Computer Engineering* and *Emerging Scholars in Engineering, Vanderbilt*.

10. **Noble, S.** (2021). Leveling Up: Improving power in functional connectivity by moving beyond cluster-level inference. *BraiNets Lab, Institut de Neurosciences de la Timone*.

11. **Noble, S.** (2021). Leveling Up: Improving power in functional connectivity by moving beyond cluster-level inference. *Systems Lab, Melbourne University*.

12. **Noble, S.** (2021). Leveling Up: Improving power in functional connectivity by moving beyond cluster-level inference. *Neurostats Oxford group meeting, Oxford University*.

13. **Noble, S.** (2021). Leveling Up: Improving power in functional connectivity by moving beyond cluster-level inference. *Cognitive Development Lab, Columbia University*.

14. **Noble, S.**, Scheinost, D., Constable, R.T. (2020). A decade of test-retest reliability of functional connectivity. *Yale Appetitive Science Seminar Series*.

15. **Noble, S.**, Constable, R.T. Scheinost, D (2017). Factors influencing Reliability of Functional Connectivity. *Yale Magnetic Resonance Seminar Series*.

16. **Noble, S.**, Scheinost, D., Bookheimer, SY, Walshaw, P, Constable, R.T., Benjamin, C (2015). Initial validation of a novel method of presurgical fMRI language localization through functional connectivity. *Yale Epilepsy Research Retreat 2015*.

17. **Noble, S.**, Scheinost, D., Constable, R.T., Cannon, T.D. (2015). Reliability of Multisite Functional Connectivity. *Yale NeuroDay 2015*.

18. **Noble, S.** (2023). Symposium: Advances in Individual-Level Modeling. *Organization for Human Brain Mapping Meeting*. Speakers: Mandy Mejia (organizer), Stephanie Noble (organizer), Gang Chen (organizer), Catie Chang, and Aihuiping Xue.

19. **Noble, S.** (2023). Symposium: Inference on the Brain: advances and practices in brain activity inference. *Organization for Human Brain Mapping Meeting*. Speakers: Sina Mansour (organizer), Andrew Zalesky (organizer), Stephanie Noble, Chris Rorden, and Sara Larivière.

20. **Noble, S.** (2022). Panel: Emerging topics in promoting reproducible research from a statistical perspective. *Organization for Human Brain Mapping Meeting: Open Science Room*. Speakers: Stephanie Noble (moderator), Johanna Bayer (moderator), Amanda Mejia, Bertrand Thirion, Catie Chang, Gang Chen, and Wesley Thompson.

21. **Noble, S.** (2022). Symposium: The ups and downs of open science - perspectives from early-career and established researchers. Talk: Making open science work for you as an ECR. *Organization for Human Brain Mapping Meeting*. Speakers: Benjamin de Leener (organizer, speaker), Johanna Bayer (organizer), Stefano Moia (organizer), Linden Parkes (organizer), Priya Suppiah, Cassandra Gould van Praag, and Stephanie Noble.

22. **Noble, S.** (2022). RoundTable Discussion: Best practices for promoting diversity and inclusivity across OHBM organizations. *Organization for Human Brain Mapping Meeting*. Panelist.

23. **Noble, S.** (2021). Panel: Aperture and Open Science Roundtable. *Organization for Human Brain Mapping Meeting*. Speakers: Aki Nikolaidis (moderator), JB Poline (moderator), Ilona Lipp, and Stephanie Noble.

24. **Noble, S.** (2021). 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.

25. **Noble, S.** (2021). Symposium: Current frontiers in statistical inference for neuroimaging data. Talk: Cluster failure or power failure? Towards a new level of inference for neuroimaging. *Organization for Human Brain Mapping Meeting*. Speakers: Bertrand Thirion (organizer), Jeanette Mumford (moderator), Stephanie Noble, and Jonathan D. Rosenblatt.

26. **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.

27. **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*.

28. **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*.

29. **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*.

30. **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*. Recording: https://www.youtube.com/watch?v=9Xgn7Jg7ypo

31. **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).

32. 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*.

33. *(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*. Recording: https://www.pathlms.com/ohbm/courses/12238/sections/15843/video_presentations/138325

34. **Noble, S.**, Dadashkarimi, J., Saltzman, Z., Lacadie, C., Garbus, H., Casetti, D., Onofrey, J., Papademetris, X., Scheinost, D. (2019). Talk & Demo. Introducing BioImage Suite Web. *Organization for Human Brain Mapping Meeting: Open Science Room*.

35. **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 Meeting*. Speakers: Stephanie Noble, Caterina Gratton (co-chair), Colin Hawco (chair), and Mac Shine.

36. **Noble, S.***, Saltzman, Z.*, Dadashkarimi, J., Lacadie, C., Garbus, H., Casetti, D., Onofrey, J., Papademetris, X., Scheinost, D. (2019). Tutorial. Introducing BioImage Suite Web. *Brainhack Yale 2019*.

37. **Noble, S.***, O'Connor, D*. (2018). Tutorial. Intro to Machine Learning for fMRI with Nilearn. *Brainhack Yale 2018*.

Select Posters

38. **Noble, S.,** Rosenblatt, M., Tejavibulya, L., Ye, J., Jiang, R., Rolison, M., Peterson, H., Dadashkarimi, J., Horien, C., Greene, A., Scheinost, D. (2022). Preliminary empirical effect size guidelines for typical fMRI studies. Society for Neuroscience Meeting.

39. Ye, J., Sun, H., Gao, S., Dadashkarimi, J., Rosenblatt, M., Rodriguez, R.X., Mehta, S., Jiang, R., **Noble, S.**, Westwater, M.L., Scheinost, D. (2022). Altered Brain Dynamics across Bipolar Disorder and Schizophrenia during Rest and Task-switching Revealed by Overlapping Brain States. Society for Neuroscience Meeting.

40. Foster, M., **Noble, S**., & Scheinost, D. (2022). A Transdiagnostic Analysis Reveals Brain Edge Motifs in Manic Patients Versus Non-Manic Patients. Society for Neuroscience Meeting.

41. Dai, W., **Noble, S**., & Scheinost, D. (2022). The Semi-constrained Network-Based Statistic (scNBS): Integrating Local and Global Information for Brain Network Inference. Medical Image Computing and Computer Assisted Intervention (MICCAI) Meeting.

42. Mansour, S., Winkler, A., **Noble, S.,** Seguin, C., Zalesky, A. (2022). Topological Cluster Statistic: Structural connectivity guided fMRI cluster enhancements. Organization for Human Brain Mapping Meeting.

43. **Noble, S.,** Mejia, M., Zalesky, A., Scheinost, D. (2022). Improving sensitivity with broader-scale inference—is it worth the reduction in specificity? Organization for Human Brain Mapping Meeting.

44. Camp, C.C., Eisner, L., **Noble, S.**, Scheinost, D, Stringaris, A., Nielson, D.M., 2023. Reliability of resting state functional connectomes in depressed adolescents. Society of Biological Psychiatry Meeting.

45. **Noble, S.,** Mejia, M., Zalesky, A., Scheinost, D. (2022). Improving sensitivity with broader-scale inference—is it worth the reduction in specificity? Cognitive Neuroscience Society Meeting.

46. Tejavibulya, L., Peterson, H., Gao, S., **Noble, S.**, Rolison, M., Scheinost, D. (2021). Identifying differences in functional organization of left- and right-handed individuals using functional connectivity. Flux Congress.

47. **Noble, S.**, Scheinost, D. (2021). Leveling up: How broader levels of inference improve power in functional connectivity. Organization for Human Brain Mapping Meeting.

48. Dufford, A., **Noble, S.**, Gao, S., Scheinost, D. (2021). Low Infant Functional Connectome-based Identification Accuracy Across the First Year of Life. Organization for Human Brain Mapping Meeting.

49. Greene, A.S., Shen, X., **Noble, S.**, Hahn, A., Arora, J., Tokoglu, F., Spann, M., Barron, D.S., Scheinost, D., Constable, R.T. (2021). Predictive modeling reveals subgroup-specific brain-phenotype relationships. Organization for Human Brain Mapping Meeting.

50. Dadashkarimi, J., Tejavibulya, L., Gao, S., Greene, A., **Noble, S.,** Constable, R.T., Scheinost, D. (2021). Combining task connectomes can emphasize or deemphasize group differences in predictive modeling. Organization for Human Brain Mapping Meeting.

51. Tejavibulya, L., Peterson, H., Gao, S., **Noble, S.**, Rolison, M., Scheinost, D. (2021). Identifying differences in functional organization of left- and right-handed individuals using functional connectivity. Organization for Human Brain Mapping Meeting.

52. **Noble, S.**, Dadashkarimi, J., Saltzman, Z., Lacadie, C., Garbus, H., Onofrey, J., Papademetris, X., Scheinost, D. (2021, accepted 2020 and postponed due to COVID19). Bioimage Suite Web: A Simple, Modern, & Powerful Software Suite. International Neuroinformatics Coordinating Facility Assembly.

53. Dadashkarimi, J., **Noble, S.**, Qu., A., Saltzman, Z., Shen, X., Lake, E., Constable, R.T., Papademetris, X., Scheinost, D. (2021, accepted 2020 and postponed due to COVID19). A web-based toolkit for visualizing and interpreting complex connectomic results in BISWeb. International Neuroinformatics Coordinating Facility Assembly.

54. **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 (MICCAI) Meeting.

55. 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.

56. 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.

57. **Noble, S.**, Dadashkarimi, J., Saltzman, Z., Lacadie, C., Garbus, H., Casetti, D., Onofrey, J., Papademetris, X., Scheinost, D. (2019). Introducing BioImage Suite Web: A Simple, Modern, and Powerful Software Suite. Society for Neuroscience Meeting.

58. **Noble, S.**, Dadashkarimi, J., Saltzman, Z., Lacadie, C., Garbus, H., Casetti, D., Onofrey, J., Papademetris, X., Scheinost, D. (2019). Introducing BioImage Suite Web: A Simple, Modern, and Powerful Software Suite. Organization for Human Brain Mapping Meeting.

59. **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.

60. 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.

61. **Noble, S.**, Dadashkarimi, J., Saltzman, Z., Lacadie, C., Garbus, H., Casetti, D., Onofrey, J., Papademetris, X., Scheinost, D. (2019). Introducing BioImage Suite Web: A Simple, Modern, and Powerful Software Suite. BRAIN Initiative Investigator's Meeting.

62. **Noble, S.**, Scheinost, D., Constable, R.T. (2018). Cluster Failure or Power Failure? Balancing the Scale with Sensitivity. 2018 Society for Neuroscience Meeting.

63. **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.

64. **Noble, S.**, Scheinost, D., Constable, R.T. (2016). Influences on Reliability of Functional Connectivity. 2016 Society for Neuroscience Meeting.

65. **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.

66. *(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.

67. **Noble, S.**, Scheinost, D., Cannon, T.D., Constable, R.T. (2015). Reliability of Multisite Functional Connectivity. Society for Neuroscience Annual Meeting.

68. **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.

69. **Noble, S.**, Schutt., C.E. (2012). Muscle Contraction as a Markov Process. Annual Princeton CBE Thesis Poster Presentations.

70. **Noble, S.**, Bonetti, C.E., Benziger, J.B. (2010). Hydrogen Purification by Electrochemical Pumping. Talk at Princeton Environmental Institute Seibel Energy Grand Challenge Summer of Learning Symposium. http://www.princeton.edu/grandchallenges/energy/internships/meet-our-interns/interns-2010/Noble_Stephanie_sol.pptx

Industry Demonstrations

71. **Noble, S.**, Poeuv, S., Brewer, J.A. (2013, February). Private demo for popular media reporter (undisclosed). goBlue Labs.

72. **Noble, S.**, Poeuv, S., Brewer, J.A. (2012, December). Public demo. TechStart Demo Day. Yale University.

73. **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.

74. **Noble, S.**, Poeuv, S., Brewer, J.A. (2012, Sept). Private demo for New Haven Independent Reporter. goBlue Labs.

Industry Pitches

75. Poeuv, S., **Noble, S.**, Pal, P., Brewer, J.A. (2013, October). goBlue Labs YEI Innovation Fund Pitch. Presentation given at Yale University.

76. Poeuv, S., **Noble, S.**, Brewer, J.A. (2013, August). goBlue Labs CI Pre-Seed Program Pitch. Presentation given at Connecticut Innovations in Rocky Hill.

77. 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.

78. Poeuv, S., **Noble, S.**, Brewer, J.A. (2012, December). goBlue Labs TechStart Demo Day Pitch. Presentation given at Yale.

79. Poeuv, S., **Noble, S.**, Brewer, J.A. (2012, July). goBlue Labs TechStart Accelerator Competition Pitch. Presentation given at Connecticut Innovations.

Mentorship

Primary supervisor:
- Alexandra Fischbach (PhD student, Psychology, 2023 – present)
- Hallee Shearer (Research Assistant, 2023 – present)
- Tracy Lu (high school student, 2018 – 2019): advised during internship
- Samantha Steinberg (high school student, 2016): advised during internship

Assisted in the supervision of:
- Maya Foster (PhD student, Biomedical Engineering, 2022 – 2023): advised on project
- Chris Camp (PhD student, Interdepartmental Neuroscience Program, 2022 – 2023): advised on projects
- Jean Ye (PhD student, Interdepartmental Neuroscience Program, 2022 – 2023): advised on project
- Matthew Rosenblatt (PhD student, Biomedical Engineering, 2021 – 2023): advised on projects
- Raimundo Rodriguez (PhD student, INP, 2021 – 2023): advised on project
- Wei Dai (PhD student, Biostatistics, 2020 – 2022): advised on project
- Javid Dadashkarimi (PhD student, Computer Science, 2019 – 2021): general support
- Link Tejavibulya (PhD student, Interdepartmental Neuroscience Program, 2019 – 2020): general support
- Iris Cheng (postgraduate fellow, 2021 – 2022): advised on project
- Hannah Petersen (postgraduate fellow, 2019 – 2022): advised on project

Extracurricular mentor:
- Darlis Juvino (PhD student, 2020 – present, via YBDIC-PATHS): mentored through successful PhD program application
- Evelyn Soria (BSN, 2016 – present): mentored through successful nursing school graduation

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).

Teaching

Instructor: "PSYC 7250: Seminar in Clinical Neuroscience: A Data Science Toolkit for Human Neuroscience Research"
Department of Psychology, Northeastern University; 15 PhD Students; New Course

Northeastern University
Spring 2024

Speaker: "Cluster failure or power failure? Empirically evaluating sensitivity and specificity of classical fMRI inference"
OHBM 2023 Educational Course: "Beyond blobology: advances in statistical inference for neuroimaging"

Montreal, Canada
2023

Guest Lecture: "A guide to the measurement and interpretation of fMRI test-retest reliability"
Training in Advanced Methods in Neuroimaging and Genetics 2023

University of Utah
2023 (planned)

Organizer: "Cultivating open science practices in academic research and culture"
OHBM 2022 Educational Course

Glasgow, Scotland
2022

Guest Lecture: "A guide to the measurement and interpretation of fMRI test-retest reliability"
Training in Advanced Methods in Neuroimaging and Genetics 2022

University of Utah
2022

Workshop: "Try BioImage Suite Web, a modern and powerful software for neuroscience"
Brainhack NY 2020

New York University
2020

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

Yale University
2017 – 2020

Workshop: "Introduction to BioImage Suite Web"
Brainhack Yale 2019

Yale University
2019

Workshop: Connectome-based Predictive Modeling Working Group
Magnetic Resonance Research Center

Yale University
2019 (Monthly)

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

Publons: https://www.webofscience.com/wos/author/rid/AEE-8968-2022

Editorial Board: Aperture (OHBM); Imaging Neuroscience, NeuroImage: Reports (2022—2023)
Guest Editor: Developmental Cognitive Neuroscience (Planned 2024 Special Issue "Methodological and analytic advances in developmental neuroscience")

Ad Hoc Review
General Science
   Proceedings of the National Academy of Sciences, Nature Communications, Nature Methods, Nature Scientific Reports, Advanced Science, Science Advances, PLOS ONE, eLife, Cell Reports
Neuroscience

Cerebral Cortex, Human Brain Mapping, Imaging Neuroscience, Network Neuroscience, Nature Neuroscience, Nature Human Behavior, Nature Mental Health, Journal for Reproducibility in Neuroscience, NeuroImage (2016-2023), eNeuro, Social Cognitive and Affective Neuroscience, Psychophysiology

Technical
PLOS Computational Biology, MICCAI Medical Image Analysis, Multivariate Behavioral Research, IEEE Transactions in Biomedical Engineering, Computers in Biology & Medicine

Clinical
NeuroImage: Clinical, Psychiatry Research: Neuroimaging, Schizophrenia Bulletin, Behavior Change, Assessment, BMC Psychiatry

Grant Review: Deutsche Forschungsgemeinschaft (DFG)

Leadership & Service

NIH DSPAN Braintrust 2023 Invited Panelist: "Mechanisms towards Independence"	*Fall 2023*
Brainhack Global 2023 Volunteer; Outreach Team	*Spring-Fall 2023*
Harvard Med / MGH Postdoc Fellowship Seminar Invited Speaker: "Having an Online Presence"	*2022, 2023*
NIH Blueprint-ENDURE 2022 Invited Panelist: "Pathways and Perspectives on Advancing Your Career"	*Fall 2022*
WINRepo Chat 2022 Invited Moderator: "Grants & Fellowships" (prof dev program started by Vale Borghesani)	*Fall 2022*
Brainhack Global 2022 Diversity, Equity, & Inclusion Team Lead; Outreach Team; Onboarding Team	*Fall 2022*
OHBM OSSIG 2022 Table Talks Facilitator: "Reproducible Science and my role in it (Thomas Nichols)"	*Summer 2022*
OHBM OSSIG 2022 Poster Pals Organizer (inaugural poster networking program led by Sarah Goodale)	*Summer 2022*
WINRepo Volunteer	*2021-present*
OHBM Open Science Special Interest Group (OSSIG) 2022 Inclusivity Officer Co-organized Open Science Room panels and events	*2021-2022*
OHBM Diversity Inclusivity Committee (DIC) 2022 OSSIG-DIC Liason	*2021-2022*
Científico Latino Graduate School Mentorship Initiative Application Reviewer (2 students)	*Fall 2021*
Brainhack Global 2021 Diversity, Equity, & Inclusion Team Lead; Outreach Team; Onboarding Team	*Fall 2021*
Brainhack OHBM 2021 Brainhack Diversity, Equity, & Justice Team Lead; Social Media Lead; Mentor	*Spring 2021*
Brainhack Global 2020 Social Lead Organizer	*Fall 2020*
Neuromatch Conference 3.0 Moderator (4 traditional symposia, 1 interactive symposium)	*Fall 2020*
Columbia University POR Colloquium Invited Talk: Grant Funding Seminar	*Fall 2020*
FIT'NG Flux Preconference Workshop Moderator: "Data Sharing" Breakout Session	*Fall 2020*
YBDIC-PATHS Mentoring Program Mentor	*2020-2021*
OHBM 2020 Club Night Social Lead Organizer	*Summer 2020*
NIH Blueprint D-SPAN F99/K00 Webinar Panelist https://www.ninds.nih.gov/News-Events/Events-Proceedings/Events/NIH-Blueprint-D-SPAN-F99K00-Webinar	*Winter 2019*
Brainhack Yale 2019 Lead Organizer and Workshop Instructor	*Spring 2019*
Neuroscience Scholars Program Leadership Meeting Panelist	*Summer 2019*
Yale Annie Le Fellowship Selection Committee Member	*Spring 2019*
INP Diversity Recruitment Panel Panelist and SWE Representative	*Spring 2019*
Brainhack Networks 2019 Team of Experts	*Winter 2019*
Yale Minority Scientists Research Network Board Member	*Fall 2018*
NIH Blueprint D-SPAN F99/K00 Twitter Q&A Panelist	*Fall 2018*

Brainhack Yale 2018: Lead Organizer and Workshop Instructor — *Spring 2018*

Neuroscience Scholars Program Neuroscience Leadership Conference Invited Member — *Summer 2017*

INP Speaker Seminar Committee Member — *Spring 2017*

She Started It "Women in Entrepreneurship" Panelist — *Spring 2017*

McDougal Center Communications Assistant (paid position managing student communications) — *Spring 2016*

Yale Graduate Society of Women Engineers Outreach Chair ('15-'17), Mentor, Volunteer, Panelist — *2014-2017*
Led four outreach events, two networking/career building events (panelist)

Mind Matters "Race and Mental Health" Panelist — *Spring 2016*

Women in Science at Yale Mentor and "Career Strategy" Panelist ('14-'16) — *2014-2018*

INP Outreach Committee Chair ('15-'16), Volunteer ('14-'17), Speaker ('16, '18 NIH BP-Endure) — *2014-2016*
Six outreach events per year (30-60 students per event)

Yale Graduate Visual Artists Society Founder ('14) and Leader — *2014-2016*

Yale Office for Graduate Student Development and Diversity Mentor — *2014-2017*

La Casa Cultural Mentor — *2014-2015*

ManyMentors / New Haven Science Fair Mentor — *2014-2015*

Connectionism Art Movement Founder and Event Organizer — *2012-2014*

Princeton Biomedical Engineering Society President ('11-'12), VP ('10-'11), Cofounder — *2010-2012*

Open Science Contributions

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

Network-Based Inferential Procedures and Benchmarking Toolbox MATLAB — *code*
2020
https://github.com/SNeuroble/NBS_benchmarking

Cluster-Based Inference Benchmarking Toolbox BASH — *code*
2019
https://github.com/SNeuroble/cluster_power_failure

Yale Test-Retest Dataset Child Mind Institute | INDI International Neuroimaging Data-Sharing Initiative — *data*
2018
http://fcon_1000.projects.nitrc.org/indi/retro/yale_trt.html

Multifactor ICC Toolbox MATLAB — *code*
2018
https://github.com/SNeuroble/Multifactor_ICC

Professional Memberships

Organization for Human Brain Mapping (2015–present)
Medical Image Computing and Computer Assisted Intervention (2020)
International Symposium on Biomedical Imaging (2021)
Society for Neuroscience (2014–present)
Cognitive Neuroscience Society (2019, 2022—present)

Skills

Programming Languages	*Data Analysis (proficient)*: Matlab
	Data Analysis (intermediate): bash, R, Python
	Software / Web Development (basic): C++, JavaScript, CSS, HTML5, Qt
Other	*Languages (basic-intermediate):* Latin, Spanish
	Visual Art (advanced): Graphic design & various media (watercolor, gouache, oil, pastel)
	Digital art includes: [BioImage Suite Web logo](#), [Fetal Infant & Toddler Neuroimaging Group logo](#)