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

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

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

Princeton University
Princeton NJ

SENIOR THESIS
2012 – 2013

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

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

2019 - 2023   **NIH 8K00MH122372-02:** Constrained Network-Based Multiple Comparison Correction
Principle Investigator: Stephanie Noble
Funding Source: National Institute of Neurological Disorders and Stroke
NIH Blueprint Diversity Specialized Predoctoral to Postdoctoral Advancement in Neuroscience (DSPAN) Award (F99/K00)
Amount: $73,168 / year

2018 - 2019   **NIH 1F99NS108557-01:** 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 (DSPAN) Award (F99/K00)
Amount: $45,524 / year

2016 - 2018   **NSF DGE1122492**
Fellow: Stephanie Noble
Funding Source: National Science Foundation
Graduate Research Fellowship Program
Amount: $46,000 / year

ACADEMIC HONORS & AWARDS

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)

SCIENCE 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)

2013	**Innovation Fund Award**, Yale Entrepreneurial Institute, $100,000 (offered) (exclusive award to Yale start-up)
2013	
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=13, Accepted=27, First Author=7, Google Scholar: https://scholar.google.com/citations?user=JxQdvn4AAAAJ

* = all authors contributed equally

Accepted

1. Dai, W., **Noble, S.**, Scheinost, D. 2022 (Accepted). The semi-constrained network-based statistic (scNBS): a new statistical procedure for brain networks inference. MICCAI.

2. Jiang, R., Westwater, M.L., **Noble, S.,** Rosenblatt, M., Dai, W., Sui, J., Calhoun, V.D., Scheinost, D. 2022 (In press). Examining the relationship between grip strength, brain structure, and mental health in >40,000 participants. BMC Medicine.

3. 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. (Provisionally Accepted). Individuals who defy stereotypical profiles require distinct brain-phenotype models. Nature.

4. 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. 2021 (In press). Predicting the future of neuroimaging predictive models in psychiatry. Molecular Psychiatry.

5. 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.

6. 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.

7. 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.

8. 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)

9. 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.

10. 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)

11. 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)

12. **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*).

13. 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/)

14. 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)

15. 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.

16. **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.

17. 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.

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

19. **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.

20. 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.

21. 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.

22. 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.

23. 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.

24. 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.

25. **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.

26. **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.

27. 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.

28. 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

29. **Noble, S.,** Mejia, M., Zalesky, A., Scheinost, D. Submitted 2022. Leveling up: improving power in fMRI by moving beyond cluster-level inference. (Preprint: https://www.biorxiv.org/content/10.1101/2021.09.23.461354v1)

30. Shinn, M., Hu, A, Turner, L, **Noble, S**, Achard, S, Anticevic, A, Scheinost, D, Constable, RT, Lee, D, Bullmore, ET, Murray, JD. Submitted 2021. Spatial and temporal autocorrelation weave human brain networks. (Preprint: https://www.biorxiv.org/content/10.1101/2021.06.01.446561v1)

31. Dadashkarimi, J., Tejavibulya, L., Gao, S., Greene, A., **Noble, S.,** Constable, R.T., Scheinost, D., Submitted 2021. Combining task connectomes can emphasize or deemphasize group differences in predictive modeling.

Preprints

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

Selected Media

33. 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/

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

35. 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

36. 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").

37. 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

Talks & Symposia (*=Invited)

1. **Noble, S.** (2022, Scheduled). 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.

2. **Noble, S.** (2022, Scheduled). 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.

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

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

5. * **Noble, S.** (2021). Invited talk. Leveling Up: Improving power in functional connectivity by moving beyond cluster-level inference. BraiNets Lab.

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

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

8. **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.

9. **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.

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

11. **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.

12. **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.

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

14. * **Noble, S.** (2021). Invited talk. 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

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

16. **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.

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

18. **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.

19. **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

20. **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).

21. 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.

22. *(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

23. **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.

24. **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.

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

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

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

28. * **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.

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

Posters

30. 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.

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

32. 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.

33. 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.

34. 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.

35. 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.

36. **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.

37. 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.

38. **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.

39. 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.

40. 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.

41. **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.

42. **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.

43. **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.

44. 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.

45. **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.

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

47. **Noble, S.**, Scheinost, D., Constable, R.T. (2018). Cluster Failure or Power Failure? Balancing the Scale with Sensitivity. 2018 Yale Biomedical Imaging Research Retreat.

48. **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.

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

50. **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.

51. *(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.

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

53. **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.

54. **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.

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

56. **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.

57. **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

Industry Demonstrations

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

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

60. **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.

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

Industry Pitches

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

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

64. 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.

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

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

Teaching & Mentoring

Mentorship

Primary supervisor:
- Tracy Lu (high school student, 2018 – 2019)
- Samantha Steinberg (high school student, 2016)

Assisted in the supervision of:
- Wei Dai (PhD student, Biostatistics, 2020 – present)
- Javid Dadashkarimi (PhD student, Computer Science, 2019 – 2021)
- Link Tejavibulya (PhD student, Interdepartmental Neuroscience Program, 2019 – 2020)
- Hannah Petersen (postgraduate fellow, 2019 – 2022)

Extracurricular mentor:
- Darlis Juvino (PhD student, 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).

Course Organizer: Cultivating open science practices in academic research and culture.
ORGANIZATION FOR HUMAN BRAIN MAPPING 2022
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
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://publons.com/researcher/4240950/stephanie-noble/peer-review/

Editor (Incoming): Aperture (OHBM), NeuroImage Reports

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

Grant Review: Deutsche Forschungsgemeinschaft

Leadership & Service

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*
Harvard Med / MGH Postdoc Fellowship Seminar Invited Speaker: "Having an Online Presence"	*Spring 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 Led four outreach events, two networking/career building events (panelist)		*2014-2017*
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) Six outreach events per year (30-60 students per event)		*2014-2016*
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 Statistic Extensions and Benchmarking Toolbox MATLAB *code*

https://github.com/SNeuroble/NBS_benchmarking *2020*

Cluster-Based Inference Benchmarking Toolbox *code*

https://github.com/SNeuroble/cluster_power_failure *2019*

Yale Test-Retest Dataset CHILD MIND INSTITUTE big data analytics | INDI International Neuroimaging Data-Sharing Initiative *data*

http://fcon_1000.projects.nitrc.org/indi/retro/yale_trt.html *2018*

Multifactor ICC Toolbox MATLAB *code*

https://github.com/SNeuroble/Multifactor_ICC *2018*

Skills

Programming Languages	*Data Analysis (intermediate-advanced)*: Matlab, 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)