


Stephanie M Noble

POSTDOCTORAL ASSOCIATE · COMPUTATIONAL NEUROSCIENCE

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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

Source Signal Imaging

San Diego CA

INDEPENDENT CONSULTANT

Oct. 2013 – Aug 2014

- Research and prototyping for EEG source estimation projects

goBlue Labs

New Haven CT

FOUNDING CHIEF SCIENCE OFFICER (CSO)

2012 – 2013

- Real-time EEG source estimation and neurofeedback software

Princeton University

Princeton NJ

SENIOR THESIS

2012 – 2013

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

JUNIOR INDEPENDENT WORK

2011 – 2012

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

PRINCETON SIEBEL ENERGY GRAND CHALLENGES SUMMER FELLOWSHIP

2010 – 2011

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

Honors & Awards

FELLOWSHIPS & GRANTS

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

ACADEMIC HONORS & AWARDS

2019	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	Yale University Seton Elm-Ivy Award (to INP Outreach Committee; co-chair)

INDUSTRY

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

Publications

H-index=11, Accepted=17, First Author=7, Google Scholar: <https://scholar.google.com/citations?user=JxQdvn4AAAAJ>

* = all authors contributed equally

Accepted

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

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

Under Review

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

Preprints

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

Acknowledgements

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

Selected Media

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

Presentations

Talks & Symposia (*=Invited)

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

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

Posters

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

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

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

Industry Demonstrations

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

Industry Pitches

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

Teaching & Mentoring

Mentorship

Primary in-lab supervisor

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

Assistant in-lab supervisor

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

Extracurricular mentor

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

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

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

BRAINHACK NY 2020

Yale University
2020

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

Yale University
2017 – 2020

Workshop: "Introduction to BiImage Suite Web"

BRAINHACK YALE 2019

Yale University
2019

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

BRAINHACK YALE 2018

Yale University
2018

Teaching Fellow

INTRODUCTION TO RELATIVITY (ASTR 180)

Yale University
2018

Teaching Fellow

NEUROBIOLOGY (MCDB/NSCI 320A/720A)

Yale University
2015

Ad Hoc Review & Editorial Membership

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

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

Editor (Incoming): OHBM Aperture






Leadership

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 "Data Sharing" Breakout Session Moderator	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	
Neuroscience Scholars Program Leadership Meeting Panelist	Spring 2019
Yale Annie Le Fellowship Selection Committee Member	Summer 2019
INP Diversity Recruitment Panel Panelist and SWE Representative	Spring 2019
Brainhack Networks 2019 Team of Experts	Spring 2019
Yale Minority Scientists Research Network Board Member	Winter 2019
NIH Blueprint D-SPAN F99/K00 Twitter Q&A Panelist	Fall 2018
Brainhack Yale 2018: Lead Organizer and Workshop Instructor	Fall 2018
Neuroscience Scholars Program Neuroscience Leadership Conference Invited Member	Spring 2018
INP Speaker Seminar Committee Member	Summer 2017
She Started It "Women in Entrepreneurship" Panelist	Spring 2017
McDougal Center Communications Assistant (paid position managing student communications)	Spring 2017
Yale Graduate Society of Women Engineers Outreach Chair ('15-'17), Mentor, Volunteer, Panelist Led four outreach events, two networking/career building events (panelist)	Spring 2016 2014-2017

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

Open Science Contributions

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

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

Skills

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