Alexandra K. Fischbach

Doctoral Candidate

Department of Psychology & Center for Cognitive and Brain Health
Northeastern University • College of Science • Boston, MA 02118
fischbach.a@northeastern.edu

EDUCATION

NORTHEASTERN UNIVERSITY Boston, MA Doctoral Candidate, Neuroscience 2020-Present

GPA: 4.0 Expected Fall 2025

• Advisor: Stephanie Noble, PhD

• Dissertation: Characterizing Subcortical fMRI Signal: the Impact of Local Cerebrospinal Fluid Noise Correction

NORTHEASTERN UNIVERSITY

Boston, MA

Master of Science, Neuroscience

2020-2023

GPA: 4.0

• Primary Advisor: Lisa Feldman Barrett, PhD

• Secondary Advisor: Karen Quigley, PhD

• Master's Thesis: Columnar Periaqueductal Gray Activity in Human Working Memory

PROVIDENCE COLLEGE

Providence, RI

Bachelor of Arts, Psychology

2013-2017

Bachelor of Arts, Biology

Certificate in Neuroscience

GPA: 3.72

- Admitted as 1 of 8 students annually to the Neuroscience Program, consisting of a small cohort of biology and psychology double majors recognized for academic excellence and clear research interests.
- Graduated with distinction (honors)

EXPERIENCE

NORTHEASTERN UNIVERSITY

Boston, MA

Center for Cognitive and Brain Health,

2023-Present

Neuroscience Precision Research & Idiographic Statistical Methods (NeuroPRISM) Laboratory

- Graduate Research Assistant
- Primary Investigator: Stephanie Noble, PhD

NORTHEASTERN UNIVERSITY

Boston, MA

Department of Psychology, Interdisciplinary Affective Science (IAS) Laboratory

2020-2023

- Graduate Research Assistant
- Primary Investigator: Lisa Feldman Barrett, PhD

BOSTON UNIVERSITY Boston, MA **Boston Medical Center, Division of Medicine** 2020 Clinical Trial Program Manager MASSACHUSETTS GENERAL HOSPITAL Boston, MA Department of Neurology, J. Philip Kistler Stroke Research Center 2018-2020 Clinical Research Coordinator II BETH ISRAEL DEACONESS MEDICAL CENTER Boston, MA 2018 Department of Neurology • Neuropathology Research Assistant DANISH INSTITUTE FOR STUDY ABROAD Copenhagen, Denmark Department of Psychology and Cognitive Neuroscience 2017-2018 Teaching/Program Assistant PROVIDENCE COLLEGE Providence, RI Department of Psychology, Providence Affective Neuroscience (PAN) Laboratory 2016-2017 Undergraduate Research Assistant Primary Investigator: Christopher Bloom, PhD **BROWN UNIVERSITY** Providence, RI Department of Cognitive, Linguistic, and Psychological Sciences 2015-2017 Undergraduate Research Assistant Primary Investigators: Katherine Phillips, PhD; Kevin Bath, PhD, Christopher Bloom, PhD PROVIDENCE COLLEGE Providence, RI 2014-2016 Department of Psychology, Neuroscience and Animal Cognition (NAC) Laboratory Undergraduate Research Assistant Primary Investigator: Victoria Templer, PhD TEACHING EXPERIENCE NORTHEASTERN UNIVERSITY Boston, MA **Department of Psychology** 2020-Present

1

- Teaching Assistant
 - Undergraduate courses: Developmental Psychology Lab, Statistics, Quantitative Topics in Psychology and Behavioral Neuroscience
- Teaching Assistant; Grader
 - Graduate courses: Machine Learning, Data Science for Human Neuroscience Research

NORTHEASTERN UNIVERSITY

Boston, MA Spring-2022

Department of Psychology

Student Instructor

2

Undergraduate course: Affective Science Lab

DANISH INSTITUTE FOR STUDY ABROAD

Copenhagen, Denmark

Department of Psychology and Cognitive Neuroscience

2017-2018

- Teaching/Program Assistant
 - Undergraduate courses: Cognitive Neuroscience, European Clinical Psychology, Positive Psychology

MENTORING EXPERIENCE

High-school Students:

Samuel Joseph, NeuroPRISM Summer Intern, Northeastern University

Summer 2024

Master Students:

Aneeesh Kumar, NeuroPRISM Research Volunteer, Northeastern University

Summer 2024-Fall 2024

Undergraduate Students:

Catherine Cahill, NeuroPRISM Research Assistant Co-op, Northeastern University

Spring 2025-Summer 2025

Research Assistants:

Neurohackademy

Hallee Shearer, M.S., NeuroPRISM Research Assistant & Lab Manager, Northeastern University

2023-Present

Post-doctoral Researchers:

Fabricio Cravo, Ph.D. (computer science), NeuroPRISM Postdoctoral Researcher, Northeastern University

2024-Present

WORKSHOPS & SUMMER SCHOOLS

Brainhack Boston: NEU 2026 (Lead Organizer)

2025

 Collaborative workshops developed to accelerate the adoption of data science and computational methods in Neuroscience.

Neuroimaging Statistics Workshop

2025

 Presented as part of the Organization for Human Brain Mapping (OHBM) 2025 program, this workshop highlighted emerging techniques in brain imaging analysis and statistical modeling.

Brainhack Boston: NEU 2025 (Organizer & Lecturer)

2025

Brainhack Boston: NEU 2024 (Organizer & Participant)

2024 2024

• A summer institute spanning two weeks at the University of Washington in Seattle, led by Dr. Ariel Rokem, focused on neuroimaging, machine learning, reproducible data science, computer programming, open science,

Psychology, engineering, and neuroscience (PEN) working group

2020-2023

• A multidisciplinary team, led by Dr. Lisa Feldman Barrett, committed to learning and discussing optimal research techniques by combining insights from psychology, engineering, and neuroscience.

Psychophysiology working group

and practical applications.

2020-2023

 A weekly discussion group, led by Dr. Karen Quigley, focused on exploring the role of the central nervous system in shaping psychological experiences.

SELECTED COURSES

Machine Learning	2024
Computational Modeling of Neuroeconomics	2022
Quantitative Methods II	2021
Quantitative Methods I	2020

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Neuroimaging Applications for Clinical Neuroscience

2020 2019

Behavioral Pharmacology AD-HOC REVIEW

Journals:

Review profile at: https://www.webofscience.com/wos/author/record/KBQ-2159-2024

• Cell Reports, Developmental Cognitive Neuroscience, Human Brain Mapping, Imaging Neuroscience, Neuron, Scientific Reports

BOOK CHAPTERS

Xu, T., **Fischbach**, **A.K.**, Bridgeford, E.W., Bayrak, R.G., Vogelstein, J., Noble, S., & Anteraper, S. (accepted, anticipated 2025). Current limitations in functional connectivity assessment: Suggestions for analysis improvements. In M. A. Rocca & M. Filippi (Eds.), Functional connectivity of the human brain: From mechanisms to clinical applications (Chapter 14). Elsevier.

PUBLICATIONS

PEER-REVIEWED PUBLISHED MANUSCRIPTS

Fischbach A.K., Satpute A.B., Quigley K.S., Kragel P.A., Chen D., Bianciardi M., Wald L.L., Wager T.D., Choi J.K., Zhang J., Barrett L.F., Theriault J.E. Seven Tesla Evidence for Columnar and Rostral-Caudal Organization of the Human Periaqueductal Gray Response in the Absence of Threat: A Working Memory Study. J Neurosci. 2024 June 26;44.

• Published with distinction: Selected as a featured article.

MANUSCRIPTS SUBMITTED AND UNDER REVIEW

Theriault, J.E., **Fischbach**, **A.K**., Kragel, P.A., Wager, T.D., Wald, L.L., Bianciardi, M., Quigley, K.S., Barrett, L.F., & Satpute, A.B. (under review). Distinct spatial patterns of neural and physiology related activity in the human periaqueductal gray during anticipatory social stress.

Shearer, H., Rosenblatt, M., Ye, J., Jiang, R., Tejavibulya, L., Foster, M., Liang, Q., Dadashkarimi, J., Westwater, M.L., Cahill, C., Cheng, I., **Fischbach, A.K**, Humphries, A., Baskaran, A.K., Rolison, M.J., Peterson, H., Adkinson, B.D., Mehta, S., Camp, C., Nichols, T.E., Curtiss, J., Scheinost, D., & Noble, S. (under review). BrainEffeX: A web app for exploring fMRI effect sizes.

MANUSCRIPTS IN PREPARATION

Fischbach, **A.K.**, Shearer, H., Satpute, A.B., Quigley, K.S., Theriault, J.E., Barrett, L.F., Noble, S. (in prep). Comparative analysis of cerebrospinal fluid artifact removal methods in subcortical structures: implications for functional connectivity and task-based activation using 7-Tesla fMRI.

Shearer, H., Rosenblatt, M., Ye, J., Jiang, R., Tejavibulya, L., Liang, Q., Dadashkarimi, J., Westwater, M., Cheng, I., **Fischbach, A.K.**, Humphries, A., Kumar, A., Rolison, M., Peterson, H., Adkinson, B., Mehta, S., Camp, C., Nichols, T., Curtiss, J., Scheinost, D., Noble, S. (in prep). BrainEffeX: A Web App for Exploring fMRI Effect Sizes.

INVITED TALKS

•	Providence College - Careers in Neuroscience	2024
•	Providence College - Neuroscience Senior Capstone	2023
•	Northeastern University - Social and Personality Area Meeting	2022
•	Providence College - Laboratory in Experimental Biopsychology	2021

LIGHTNING TALKS/ DATABLITZ

Fischbach, **A.K.**, Shearer, H., Noble, S. (Dec., 2024). Spatially-Driven Cerebrospinal Fluid Correction: A Framework for Improved Subcortical fMRI Analysis. 2nd Annual meeting of BrainHack: NEU at Northeastern University, Boston, MA.

Fischbach, **A.K.**, Shearer, H., Satpute, A.B., Quigley, K.S., Theriault, J.E., Barrett, L.F., Noble, S. (July, 2024). Evaluating Reliability in Subcortical Structures Through Masking Techniques using 7-Tesla fMRI. Annual meeting of Neurohackademy at the University of Washington, Seattle, WA.

SYMPOSIA

Fischbach, A.K., Satpute, A.B., Quigley, K.S., Kragel, P.A., Bianciardi, M., Wald, L.L., Wager, T., Barrett, L.F., Theriault, J.E. (March, 2022). Columnar Periaqueductal Gray Activity in Human Working Memory. Annual meeting of the Northeastern University Master's Convention, Boston, MA.

CONFERENCE POSTERS

Fischbach, **A.K**, Shearer, H., Satpute, A., Theriault, J., Quigley, K., Barrett, L. F., Noble, S. (July, 2025). Improving subcortical fMRI fidelity via region-specific CSF noise correction. 3rd Annual meeting of the Neuroscience of the Everyday World Conference, Boston, MA.

Fischbach, **A.K.**, Karamzadeh, M., Scheinost, D., Loth, F., Nobel, S. (July, 2025). Asymptomatic tonsillar herniation exhibits unique functional connectivity patterns: Evidence from the ABCD Study. 3rd Annual meeting of the Neuroscience of the Everyday World Conference, Boston, MA.

Fischbach, A.K., Shearer, H., Satpute, A.B., Quigley, K.S., Theriault, J.E., Barrett, L.F., Noble, S (June, 2025). Deconfounding Subcortical Signals in fMRI by Modeling Region-Specific CSF Noise in Resting-state and Task-fMRI. 31st annual meeting of the Organization for Human Brain Mapping, Brisbane, Australia.

Shearer, H., Rosenblatt, M., Ye, J., Jiang, R., Tejavibulya, L., Liang, Q., Dadashkarimi, J., Westwater, M., Cheng, I., **Fischbach, A.K.**, Humphries, A., Kumar, A., Rolison, M., Peterson, H., Adkinson, B., Mehta, S., Camp, C., Nichols, T., Curtiss, J., Scheinost, D., Noble, S. (June, 2025). BrainEffex: an interactive web application for exploring typical fMRI effect size estimates. 31st annual meeting of the Organization for Human Brain Mapping, Brisbane, Australia.

Fischbach, **A.K.**, Shearer, H., Satpute, A.B., Quigley, K.S., Theriault, J.E., Barrett, L.F., Noble, S. (March, 2025). Targeting region-specific cerebrospinal fluid noise to enhance subcortical neural estimates in fMRI. 32nd annual meeting of the Cognitive Neuroscience Society, Boston, MA.

Shearer, H., Rosenblatt, M., Ye, J., Jiang, R., Tejavibulya, L., Liang, Q., Dadashkarimi, J., Westwater, M., Cheng, I., **Fischbach**, **A.K.**, Humphries, A., Kumar, A., Rolison, M., Peterson, H., Adkinson, B., Mehta, S., Camp, C., Nichols, T., Curtiss, J., Scheinost, D., Noble, S. (March, 2025). BrainEffeX: A web app for exploring fMRI effect sizes. 32nd annual meeting of the Cognitive Neuroscience Society, Boston, MA.

Fischbach, **A.K.**, Shearer, H., Satpute, A.B., Quigley, K.S., Theriault, J.E., Barrett, L.F., Noble, S. (April, 2024). Assessing the impact of subject-specific masks on reliability of subcortical connectivity. 31st annual meeting of the Cognitive Neuroscience Society, Toronto, CA.

Fischbach, **A.K.**, Shearer, H., Satpute, A.B., Quigley, K.S., Theriault, J.E., Barrett, L.F., Noble, S. The PAG puzzle: strategies to overcome anatomical variability and improve reliability (April, 2024). Annual meeting of Northeastern University's Research, Innovation, Scholarship, Entrepreneurship Virtual Exposition, Boston, MA.

Fischbach, A.K., Satpute, A.B., Quigley, K.S., Kragel, P.A., Bianciardi, M., Wald, L.L., Wager, T., Barrett, L.F., Theriault, J.E. (Sept., 2023). 7 Tesla evidence for columnar and rostral-caudal organization of the human periaqueductal gray response in the absence of threat: a working memory study. 63rd annual meeting of the Society for Psychophysiological Research, New Orleans, LA.

Fischbach, **A.K.**, Burke, E., Knizek, L., Wilk, F., Bloom, C.M. (May, 2017). Control over stressors in adolescence modifies the effect of early life stress across the life-span. 29th annual meeting for the Association for Psychological Science, Boston, MA.

Fischbach, A.K., Bloom, C.M., Phillips, K.A., Bath, K.G. (July, 2016). Genetic association of GABRG2 and body dysmorphic disorder in a mouse model. 9th annual Rhode Island Summer Undergraduate Research Fellows (SURF) Conference, Kingston, RI.

Burke, E., **Fischbach**, **A.K.**, Davenport, C., Knizek, L., Wilk, F., Bloom, C.M. (July, 2016). The effect of stress controllability on anxiety and nociception from juvenility to adulthood. 9th annual Rhode Island Summer Undergraduate Research Fellows (SURF) Conference, Kingston, RI.

Hemmer, B.M., Fischbach, A.K., Templer, V.L. (July 2015). Assessing dominance hierarchies throughout development in socially-housed rats. 8th annual Rhode Island Summer Undergraduate Research Fellows (SURF) Conference, Kingston, RI.

AWARDS & GRANTS

Travel grant Northeastern University College of Science (\$290) IDEA Networks of Biomedical Research Excellence grant Providence College (\$4,500) IDEA Networks of Biomedical Research Excellence grant Providence College (\$4,500) June 2015 AWARDS NINDS Early-Career Rigor Champions Prize SOCIETIES Organization for Human Brain Mapping 2025 Cognitive Nortworscience Society 2024 Society for Psychophysiological Research = 2025 LEADERSHIP & SERVICE ACADEMIC EVENT LEADERSHIP Industry Career Panel - Lead Organizer Brainhack Boston - Lead Organizer Brainhack Boston: Northeastern University (NEU) - Organizer Joint meeting of the IASLab (NEU) and NIV Lab (Princeton) - Organizer Northeastern University Community Laisons for Education Using STEM (NUCLEUS) - Volunteer Northeastern University Community Liaisons for Education Using STEM (NUCLEUS) - Volunteer Conacted Science Community Per Mentorship Program (NEU) - Volunteer Careers in Neuroscience (Providence College) - Paneliss Young Professional Group (Massachusetts General Hospital) - Volunteer Careers in Neuroscience (Providence College) - Paneliss Young Professional Group (Massachusetts General Hospital) - Volunteer Careers in Neuroscience (Providence College) - Paneliss Young Professional Group (Massachusetts General Hospital) - Volunteer Careers in Neuroscience (Providence College) - Paneliss Young Professional Group (Massachusetts General Hospital) - Volunteer Careers in Neuroscience (Providence College) - Volunteer	Last updated //11/2025	6
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 Northeastern University Community Liaisons for Education Using STEM (NUCLEUS) - Volunteer 2025 Connected Science Community Peer Mentorship Program (NEU) - Volunteer 2024 Graduate Student Mentoring Program (NEU) - Volunteer 2024 Interview Weekend for Prospective Psychology PhD Students (NEU) - Volunteer 2020-2025 PROFESSIONAL & OUTREACH ACTIVITIES Careers in Neuroscience (Providence College) - Panelist 2023 Young Professional Group (Massachusetts General Hospital) - Volunteer 2019-2020 Tutoring Plus of Cambridge - STEM Tutor 2018-2020 GLOBAL SERVICE CARE Team Mental Health Peer Advisor (Danish Institute for Study Abroad) - Volunteer 2017-2018 Refugee Action (Danish Red Cross) - Volunteer 2017-2018 UNDERGRADUATE SERVICE Class Representative (Danish Institute for Study Abroad) - Volunteer 2016-2017 UNDERGRADUATE SERVICE Class Representative (Danish Institute for Study Abroad) - Volunteer 2016-2017 	• IASLab Social Committee (NEU) – Organizer	2020-2023
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GLOBAL SERVICE • CARE Team Mental Health Peer Advisor (Danish Institute for Study Abroad) – Volunteer • Refugee Action (Danish Red Cross) – Volunteer 2017-2018 UNDERGRADUATE SERVICE • Class Representative (Danish Institute for Study Abroad) – Volunteer 2016-2017	• Young Professional Group (Massachusetts General Hospital) – Volunteer	2019-2020
 CARE Team Mental Health Peer Advisor (Danish Institute for Study Abroad) - Volunteer Refugee Action (Danish Red Cross) - Volunteer UNDERGRADUATE SERVICE Class Representative (Danish Institute for Study Abroad) - Volunteer Psi Chi Psychology Mentor Program (Providence College) - Volunteer 2016-2017 	• Tutoring Plus of Cambridge – STEM Tutor	2018-2020
 Refugee Action (Danish Red Cross) - Volunteer UNDERGRADUATE SERVICE Class Representative (Danish Institute for Study Abroad) - Volunteer Psi Chi Psychology Mentor Program (Providence College) - Volunteer 2016-2017 	GLOBAL SERVICE	
UNDERGRADUATE SERVICE • Class Representative (Danish Institute for Study Abroad) – Volunteer • Psi Chi Psychology Mentor Program (Providence College) – Volunteer 2016-2017	• CARE Team Mental Health Peer Advisor (Danish Institute for Study Abroad) - Volunteer	2017-2018
 Class Representative (Danish Institute for Study Abroad) - Volunteer Psi Chi Psychology Mentor Program (Providence College) - Volunteer 2016-2017 	• Refugee Action (Danish Red Cross) - Volunteer	2017-2018
• Psi Chi Psychology Mentor Program (Providence College) - Volunteer 2016-2017	UNDERGRADUATE SERVICE	
	• Class Representative (Danish Institute for Study Abroad) - Volunteer	2016
• Admission Ambassador (Providence College) – Volunteer 2013-2017	Psi Chi Psychology Mentor Program (Providence College) – Volunteer	2016-2017
	• Admission Ambassador (Providence College) – Volunteer	2013-2017

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SKILLS

Programming languages (intermediate): R, Python (Nilearn, Nipype), Bash, Linux command-line (shell scripting)

Data analysis (intermediate): Jupyter Notebooks, High-performance computing systems (SLURM, GPU computing, parallel programming)

Data processing (intermediate): fMRIPrep (FSL, ANTs, FreeSurfer, AFNI), Docker, Singularity

Database management (basic): RedCap

Data Visualization (intermediate): MatplotLib, ggplot2

Systems (basic): Linux, MAC OS, Windows

Software (intermediate): RStudio, Visual Studio Code, Atom, Mango, FSLEyes, SPSS

Visual art (advanced): Photoshop, Adobe Illustrator, Keynote

REFERENCES

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