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ACADEMIC APPOINTMENTS

2020- Assistant Professor
Department of Psychological and Brain Sciences, Dartmouth College

EDUCATION & TRAINING

2017-2020 Postdoctoral Fellow, National Institute of Mental Health, Bethesda, Md.
Section on Functional Imaging Methods, Laboratory of Brain & Cognition
Mentor: Peter A. Bandettini, Ph.D.

2012-2017 Ph.D., Yale University, New Haven, Conn.
Neuroscience, with Distinction, awarded May 2017
Advisor: R. Todd Constable, Ph.D.

2005-2009 B.A., Yale University, New Haven, Conn.
Linguistics, with Distinction, *summa cum laude*

RESEARCH SUPPORT

2020-2022 NARSAD Young Investigator Award, Brain & Behavior Foundation

2019-2024 PI, K99MH120257, National Institute of Mental Health
K99R00 Pathway to Independence Award: *Linking brain activity during naturalistic tasks to individual phenotypes on the depression spectrum*

2014-2017 National Science Foundation Graduate Research Fellowship

2012-2014 Gruber Foundation Graduate Fellowship

AWARDS & FELLOWSHIPS

2019 NIMH Director's Award for Scientific Contributions

2019 Maryland Neuroimaging Retreat Early Career Scholar

2018 Fellowship, *Methods in Neuroscience at Dartmouth Computational Summer School*

2016 Merit Abstract Award, *Organization for Human Brain Mapping*

2012	Best Poster Award, <i>Yale Bioimaging Sciences Retreat</i>
2009	Phi Beta Kappa
2009	Daniel E. Merriman Prize for Outstanding Leadership, <i>Yale University</i>
2005	Robert C. Byrd Scholar, Connecticut
2005	National Merit Scholar

PEER-REVIEWED PUBLICATIONS

Huber L, **Finn ES**, Chai Y, Goebel R, Stirnberg R, Stöcker T, Marrett S, Uludag K, Kim SG, Han S, Bandettini PA, Poser BA. (2020). Layer-dependent functional connectivity methods. *Progress in Neurobiology*, 101835.

Finn ES, Glerean E, Khojandi AY, Nielson D, Molfese PJ, Handwerker DA, Bandettini PA. (2020). Idiosynchrony: From shared responses to individual differences during naturalistic neuroimaging. *NeuroImage*, 116828.

Huber L, **Finn ES**, Handwerker DA, Boenstrup M, Glen D, Kashyap S, Ivanov D, Petridou N, Marrett S, Goense J, Poser B, Bandettini PA. (2020). Sub-millimeter fMRI reveals multiple topographical digit representations that form action maps in human motor cortex. *NeuroImage*, 208: 116463.

Rosenberg MD, Scheinost D, Greene AS, Avery EW, Kwon YH, **Finn ES**, Ramani R, Qiu M, Constable RT, Chun MM. (2020). Functional connectivity predicts changes in attention over minutes, days, and months. *Proceedings of the National Academy of Sciences*, 117: 3797-3807.

Huber L, **Finn ES**, Handwerker DA, Boenstrup M, Glen D, Kashyap S, Ivanov D, Petridou N, Marrett S, Goense J, Poser B, Bandettini PA. (2020). Sub-millimeter fMRI reveals multiple topographical digit representations that form action maps in human motor cortex. *NeuroImage*, in press.

Chen G, Taylor PA, Qu X, Molfese PJ, Bandettini PA, Cox RW, **Finn ES**. (2020). Untangling the Relatedness among Correlations, Part III: Inter-Subject Correlation Analysis through Bayesian Multilevel Modeling for Naturalistic Scanning. *NeuroImage*, in press.

Finn ES, Huber L, Jangraw DC, Molfese PJ, Bandettini PA. (2019). Layer-dependent activity in human prefrontal cortex during working memory. *Nature Neuroscience*, 22 (10): 1687-1695.

Lake EMR, **Finn ES**, Noble SM, Vanderwal T, Shen X, Rosenberg MD, Spann MN, Chun MM, Constable RT. The functional brain organization of an individual predicts measures of social abilities in autism spectrum disorder. *Biological Psychiatry*, 86 (4): 315-326.

Finn ES, Corlett PR, Chen G, Bandettini PA, Constable RT. (2018). Trait paranoia shapes inter-subject synchrony in brain activity during an ambiguous social narrative. *Nature Communications*, 9, 2043.

Horien C, Noble S, **Finn ES**, Shen X, Scheinost D, Constable RT. (2018). Considering factors affecting the connectome-based identification process: Comment on Waller et al. *NeuroImage*, 169: 172-175.

Finn ES, Scheinost D, Finn DM, Shen X, Papademetris X, Constable RT. (2017). Can brain state be manipulated to emphasize individual differences in functional connectivity? *NeuroImage*, 160: 140-151.

Vanderwal T, Eilbott J, **Finn ES**, Craddock RC, Turnbull A, Castellanos FX. (2017). Individual differences in functional connectivity during naturalistic viewing conditions. *NeuroImage*, 157: 521-530.

Rosenberg MD, **Finn ES**, Scheinost D, Constable RT, Chun MM. (2017). Characterizing attention with predictive network models. *Trends in Cognitive Sciences*, 21: 290-302.

Shen X, **Finn ES**, Scheinost D, Rosenberg MD, Chun MM, Papademetris X, Constable RT. (2017). Using connectome-based predictive modeling to predict individual behavior from brain connectivity. *Nature Protocols* 12: 506-18.

Scheinost D, Tokoglu F, Shen X, **Finn ES**, Noble S, Papademetris X, Constable RT. (2016). Fluctuations in global brain activity are associated with changes in whole-brain connectivity of functional networks. *IEEE Transactions on Biomedical Engineering*, 63(12): 2540–2549.

Pinango MM, **Finn ES**, Lacadie C, Constable RT. (2016). The localization of long-distance dependency components: Integrating the focal-lesion and neuroimaging record. *Frontiers in Psychology*, 7: article 1434.

Noble S, Scheinost D, **Finn ES**, Shen X, [...], Cannon TD, Constable RT. (2017) Multisite reliability of MR-based functional connectivity. *NeuroImage*, 146: 959-970.

Finn ES, Constable RT. (2016). Individual variation in functional brain connectivity and its implications for personalized approaches to psychiatric disease. *Dialogues in Clinical Neuroscience*, 18(3): 277–287.

Rosenberg MD, Zhang S, Hsu WT, Scheinost D, **Finn ES**, Shen X, Constable RT, Li C, Chun MM. (2016). Methylphenidate modulates functional network connectivity to enhance attention. *Journal of Neuroscience*, 36(37): 9547–9557.

Rosenberg MD*, **Finn ES***, Scheinost D, Shen X, Papademetris X, Constable RT, Chun MM. (2016) A neuromarker of sustained attention from whole-brain functional connectivity. *Nature Neuroscience*, 19: 165–171.

*Authors contributed equally

Finn ES*, Shen X*, Scheinost D, Rosenberg MD, Huang J, Chun MM, Papademetris X, Constable RT. (2015) Functional connectome fingerprinting: Identifying individuals using patterns of brain connectivity. *Nature Neuroscience*, 18: 1664–1671.

**Authors contributed equally*

Press coverage: BBC, NBC, PBS, CBS, Newsweek, Scientific American, Discover, Wired, Nature News, The Scientist

Companion article for lay reader: TheConversation.com

Powers III AR, Ganscos MG, **Finn ES**, Morgan PT, Corlett PR. (2015). Ketamine-induced hallucinations. *Psychopathology*, 48 (6): 376-385.

Garrison KA, Scheinost D, **Finn ES**, Shen X, Constable RT. (2015) The (in)stability of functional brain network measures across thresholds. *NeuroImage*, 118: 651-661.

Rosenberg MD, **Finn ES**, Constable RT, Chun MM. (2015) Predicting moment-to-moment attentional state. *NeuroImage*, 114: 249-256.

Scheinost D, **Finn ES**, Tokoglu F, Shen X, Papademetris X, Hampson M, Constable RT. (2015). Sex differences in normal age trajectories of functional brain networks. *Human Brain Mapping*, 36(4): 1524-1535.

Finn ES, Shen X, Holahan JM, Scheinost D, Lacadie C, Papademetris X, Shaywitz SE, Shaywitz BA, Constable RT. (2014) Disruption of functional networks in dyslexia: A whole-brain, data-driven analysis of connectivity. *Biological Psychiatry*, 76(5): 397-404.

Scheinost D, Shen X, **Finn ES**, Sinha R, Constable RT, Papademetris X. (2014) Coupled intrinsic connectivity distribution analysis: A method for exploratory connectivity analysis of paired fMRI data. *PLoS ONE*, 9(3): e93544.

Constable RT, Scheinost D, **Finn ES**, Shen X, Hampson M, Winstanley FS, Spencer DD, Papademetris X. (2013) Potential use and challenges of functional connectivity mapping in intractable epilepsy. *Frontiers in Neurology*, 4 May: 39.

PREPRINTS

Goyal N, Moraczewski D, Bandettini PA, **Finn ES**, Thomas A. Computationally replicating the Smith et al. (2015) positive-negative mode linking functional connectivity and subject measures. *bioRxiv*, doi: <https://doi.org/10.1101/2020.04.23.058313>.

BOOK CHAPTERS

Finn ES, Scheinost D, Shen X, Papademetris X, Constable RT. Methodological Issues in fMRI Functional Connectivity and Network Analysis. In *Brain Mapping: An Encyclopedic Reference*, ed. Toga, AW, Elsevier Inc., San Diego, 2015, pp. 697-704.

INVITED CONFERENCE TALKS

2020	Computational Properties of the Prefrontal Cortex, Oxford, UK (<i>upcoming</i>)*
2020	Brain Connectivity Workshop, Toronto, ON, Canada (<i>upcoming</i>)*
2019	Brain Health & Performance Summit, The Ohio State University
2019	Social & Affective Neuroscience Society, Miami, FL.
2019	Maryland Neuroimaging Retreat, Baltimore, Md. (<i>Early Career Scholar</i>)
2018	4 th Biennial Brain Function Workshop, Whistler-Blackcomb, BC, Canada
2017	Brainhack DC, Washington, DC
2017	South by Southwest, Austin, TX
2017	Brainhack NYC (keynote), Child Mind Institute, New York, NY
2016	Fifth Biennial Conference on Resting State Brain Connectivity, Vienna, Austria
2016	3 rd Biennial Brain Function Workshop, Whistler-Blackcomb, BC, Canada
2015	American Society for Neuroradiology Annual Meeting, Chicago, Ill.
2014	2 nd Biennial Brain Function Workshop, Whistler-Blackcomb, BC, Canada

INVITED SEMINARS & COLLOQUIA

2020	Caltech Computation & Neural Systems Seminar, Pasadena, Calif.
2019	Georgetown Methods Lab, Georgetown Psychology, Washington, D.C.
2019	National Institute on Drug Abuse, Baltimore, Md.
2019	Hasson Lab Seminar, Princeton University, Princeton, N.J.
2019	Chen/Honey Lab Seminar, Johns Hopkins University, Baltimore, Md.
2019	Dept. of Psychological & Brain Sciences, Dartmouth College, Hanover, N.H.
2019	Nathan S. Kline Institute, Orangeburg, N.Y.
2018	Aly/Baldassano Lab Seminar, Columbia Psychology, New York, N.Y.
2018	NIMH Julius Axelrod Symposium, Bethesda, Md.
2017	NIMH Clinical & Translational Neurosciences Branch, Bethesda, Md.
2017	Johns Hopkins/Kennedy Krieger Institute, Baltimore, Md.
2016	Centre for Functional MRI of the Brain (FMRIB), University of Oxford, UK
2016	Max Planck Institute, University College London, UK
2016	National Institute of Mental Health, Bethesda, Md.
2015	Kavli Brain Coffee Hour, Yale Institute for Network Science, New Haven, Conn.
2014	Yale Magnetic Resonance Research Center Seminar Series, New Haven, Conn.

CONTRIBUTED CONFERENCE TALKS

2020	Organization for Human Brain Mapping, Virtual Meeting (<i>Educational Workshop</i>)
2019	Organization for Human Brain Mapping, Rome, Italy
2018	Society for Neuroscience, San Diego, CA
2018	Organization for Human Brain Mapping, Singapore
2017	Society for Neuroscience, Washington, DC
2017	Computational Neuroscience Society, Antwerp, Belgium

2017 Organization for Human Brain Mapping, Vancouver, BC (*Symposium*)
 2017 Organization for Human Brain Mapping, Vancouver, BC (*Educational Workshop*)
 2017 Society of Biological Psychiatry, San Diego, CA
 2012 Society for Neuroscience, New Orleans, LA

**Cancelled or postponed due to COVID-19*

TEACHING

Winter 2021 Principles of Human Brain Mapping with fMRI, Dartmouth College
 Summer 2018 Instructor, NIH Neuroimaging Summer Course
 Summer 2017 Instructor, Online Brain Intensive course
 Fall 2015 Teaching Fellow, Introduction to Cognitive Science (Yale College)
 Prof. April Ruiz
 Fall 2013 Teaching Fellow, Introduction to the Human Brain (Yale College)
 Prof. Amy Arnsten

MENTORING

Clare Grall (Dartmouth postdoc, summer 2020 – present)
 Clara Sava-Segal (Dartmouth cognitive neuroscience PhD student, fall 2020 – present)
 Josie Equita (Dartmouth full-time research assistant/lab manager, summer 2020 – present)
 Chandler Richards (NIMH post-baccalaureate fellow, summer 2019 – summer 2020)
 Arman Khojandi (NIMH post-baccalaureate fellow, summer 2018 – summer 2019)
 Dannie Griggs (NIMH undergraduate student, summer 2018)
 Amy Loret (NIMH undergraduate student, summer 2018)
 Natasha Topolski (NIMH post-baccalaureate fellow, fall 2017 – spring 2018)
 Jessica Huang (Yale high school student, summer 2015, 2016)

OUTREACH ACTIVITIES

2017 NIH Take Your Child to Work Day volunteer activity leader
 2012-2016 Yale Neuroscience “Brain Awareness Day” volunteer activity leader
 2008-2009 Instructor & Lead Curriculum Developer, EVOLUTIONS After-School Program
 & College Prep Course, Yale Peabody Museum of Natural History (free program
 for public high school students in the New Haven area)

SELECTED POPULAR PUBLICATIONS

“How I Learned to Stop Worrying and Love Linguistics”. [The New York Times](#), July 20, 2009.
 “Brain activity is as unique – and identifying – as a fingerprint.” [TheConversation.com](#), Oct 12,
 2015.

POPULAR LECTURES

- 2017 “Can you lie to MRI? The science of mind reading”
Panel at South by Southwest, Austin, TX
- 2013 “Mind Reading: Can we do it? Should we?”
New Haven Free Public Library, Science in the News series

PROFESSIONAL SERVICE

- 2020-2022 Program Committee, Organization for Human Brain Mapping
- 2018 Abstract reviewer, Organization for Human Brain Mapping

INSTITUTIONAL SERVICE

- 2017 NIH Post-bac Poster Day volunteer judge
- 2014-2016 Yale Magnetic Resonance Research Center Seminar Series organizer
- 2013-2014 Yale Interdepartmental Neuroscience Program Student-Faculty Lunch organizer
- 2013 Yale Interdepartmental Neuroscience Program NeuroDay planning committee

PROFESSIONAL AFFILIATIONS

Organization for Human Brain Mapping
Society for Neuroscience

EDITORIAL BOARD MEMBERSHIPS

- 2018- *Network Neuroscience*
- 2017- *NeuroImage* (special issue guest editor: “Naturalistic Imaging”, fall 2019)

AD HOC MANUSCRIPT REVIEW

<i>Biological Psychiatry</i>	<i>Nature Communications</i>
<i>Brain</i>	<i>Nature Neuroscience</i>
<i>Brain Connectivity</i>	<i>Network Neuroscience</i>
<i>Brain Structure & Function</i>	<i>New England Journal of Medicine</i>
<i>Cerebral Cortex</i>	<i>NeuroImage</i>
<i>Developmental Cognitive Neuroscience</i>	<i>Personality Neuroscience</i>
<i>Frontiers in Neuroscience</i>	<i>PLoS Computational Biology</i>
<i>Human Brain Mapping</i>	<i>PLoS ONE</i>
<i>Intelligence</i>	<i>Proceedings of the National Academy of</i>
<i>Journal of Neuroscience</i>	<i>Sciences</i>

GRANT REVIEW

National Science Foundation
University of Rochester Del Monte Institute for Neuroscience

SKILLS/OTHER

Winner, Best Brain Icon, Brain Art Competition 2016 (NeuroBureau/OHBM)
Spanish (fluent), French (proficient), German, Russian, Modern Greek (basic)
CrossFit Level 1 Trainer