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EDUCATION & TRAINING

2017-present Postdoctoral Fellow, National Institute of Mental Health, Bethesda, Md.
Section on Functional Imaging Methods
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*
GPA: 3.95/4.0

GRANTS & AWARDS

2016 Organization for Human Brain Mapping Merit Abstract Award
2014-2017 National Science Foundation Graduate Research Fellowship
2012-2014 Gruber Foundation Fellowship
2012 Yale Bioimaging Sciences Retreat: Best Poster Award
2009 Phi Beta Kappa
2009 Daniel E. Merriman Prize for Outstanding Leadership
2005 Robert C. Byrd Scholar, Connecticut
2005 National Merit Scholar

PEER-REVIEWED PUBLICATIONS

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

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. *Nat. 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. 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.

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

2018 4th Biennial Brain Function Workshop, Whistler-Blackcomb, BC, Canada
2017 Brainhack DC (SfN satellite)
2017 South by Southwest, Austin, TX
2017 Brainhack NYC
2016 Fifth Biennial Conference on Resting State Brain Connectivity, Vienna, Austria

2016 3rd Biennial Brain Function Workshop, Whistler-Blackcomb, BC, Canada
2015 American Society for Neuroradiology Annual Meeting, Chicago
2014 2nd Biennial Brain Function Workshop, Whistler-Blackcomb, BC, Canada

INVITED COLLOQUIA

2018 NIMH Julius Axelrod Symposium
2017 NIMH Clinical & Translational Neurosciences Branch
2017 Johns Hopkins/Kennedy Krieger Institute
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
2015 Kavli Brain Coffee Hour, Yale Institute for Network Science, Yale Univ.
2014 Magnetic Resonance Research Center Seminar Series, Yale Univ.

CONTRIBUTED CONFERENCE TALKS

2018 Organization for Human Brain Mapping, Singapore
Symposium: "Movies in the Magnet: Emerging themes from naturalistic viewing studies in fMRI"

2017 Society for Neuroscience Annual Meeting, Washington, DC
Nanosymposium: "Inter-subject correlations in brain activity during an ambiguous narrative predict similarity of subjects' ultimate interpretation of the narrative." **Finn ES**, Corlett PR, Chen G, Bandettini PA, Constable RT.

2017 Computational Neuroscience Society, Antwerp, Belgium
Workshop: "Fingerprints of brain dynamics estimated from neuroimaging data and application to discrimination between individuals, tasks and/or conditions"

2017 Organization for Human Brain Mapping, Vancouver, Canada
Symposium: "Relating connectivity to inter- and intra-individual differences in attention and cognition"

2017 Organization for Human Brain Mapping, Vancouver, Canada
Educational Workshop: "Taking Connectivity to a Skeptical Future: Challenges, Tools and Techniques"

2017 Society of Biological Psychiatry, San Diego
Symposium: "Disease Connectomics: From Gene Expression to Large-Scale Brain Networks"

2012 Society for Neuroscience Annual Meeting, New Orleans
Nanosymposium: "An investigation of functional networks in dyslexia using graph theory and a novel method for brain parcellation." **Finn ES**, Shen X, Holahan JM, Scheinost D, Lacadie C, Papademetris X, Shaywitz SE, Shaywitz BA, Constable RT.

CONFERENCE POSTER PRESENTATIONS

(selected; first author only)

Finn ES, Scheinost D, Finn DM, Shen X, Papademetrix X, Constable RT. Can brain state be manipulated to emphasize individual differences in functional connectivity? Organization for Human Brain Mapping, June 2017, Vancouver, BC.

Finn ES, Shen X, Scheinost D, Qiu M, Corlett PR, Constable RT. Investigating the stability of the functional connectome fingerprint under anesthetic drugs. Conference on Resting State / Brain Connectivity, September 2016, Vienna.

Finn ES, Shen X, Scheinost D, Qiu M, Corlett PR, Constable RT. Investigating the stability of the functional connectome fingerprint under anesthetic drugs. Organization for Human Brain Mapping, June 2016, Geneva.

Finn ES, Shen X, Scheinost D, Rosenberg MD, Huang J, Chun MM, Papademetris X, Constable RT. The individual brain connectome predicts fluid intelligence. Organization for Human Brain Mapping, June 2015, Honolulu, HI.

Finn ES, Tokoglu F, Shen X, Hoffman RE, Constable RT. Resting-state brain networks predict severity of auditory hallucinations in schizophrenia. Society for Neuroscience Annual Meeting, Nov 2014, Washington, DC.

Finn ES, Rosenberg MD, Shen X, Scheinost D, Papademetris X, Chun MM, Constable RT. Complex brain networks at rest predict individual working memory and attentional performance. Fourth Biennial Conference on Resting State/Brain Connectivity, Sept 2014, Cambridge, MA.

Finn ES, Scheinost D, Hampson M, Shen X, Tokoglu F, Papademetris X, Constable RT. Sex differences in functional brain organization detected using a novel voxelwise, threshold-free measure of intrinsic connectivity. Poster presented at The Networked Brain, a Cell symposium prior to Society for Neuroscience Annual Meeting, Nov 2013, San Diego.

Finn ES, Rosenberg MD, Shen X, Chun MM, Constable RT. Predicting attention and performance across varying task loads from complex networks during task and at rest. Society for Neuroscience Annual Meeting, Nov 2013, San Diego.

Finn ES, Shen X, Holahan JM, Scheinost D, Lacadie C, Papademetris X, Shaywitz SE, Shaywitz BA, Constable RT. Identifying group differences in functional subnetworks: a novel whole-brain method applied to dyslexia. International Society for Magnetic Resonance in Medicine Annual Meeting, Apr 2013, Salt Lake City.

Finn ES, Kim I, Piñango MM. On the status of intermediate gaps in sentence processing. CUNY Conference on Human Sentence Processing, March 2010, New York.

TEACHING

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

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

INSTITUTIONAL SERVICE

2017	NIH Post-bac Poster Day volunteer judge
2017	NIH Take Your Child to Work Day volunteer activity leader
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 MEMBERSHIP

NeuroImage

AD HOC REVIEWING

Brain, Cerebral Cortex, Developmental Cognitive Neuroscience, Frontiers in Neuroscience, Human Brain Mapping, Intelligence, Journal of Neuroscience, Nature Communications, Nature Neuroscience, Network Neuroscience, NeuroImage, PLoS Computational Biology, PLoS ONE

SKILLS

Spanish (fluent), French (proficient), German, Russian, Modern Greek (basic)
CrossFit Level 1 Trainer