

Chris C. Camp

New Haven, CT

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(843) 737-1797

EDUCATION

Yale University | New Haven, CT

2021 – Present

Interdepartmental Neuroscience Program
Gruber Science Fellow

Duke University | Durham, NC

2015 – 2019

B.S. in Neuroscience – Graduation with Distinction
Minors in Spanish and Music

RESEARCH EXPERIENCE

Postbaccalaureate Research Fellow

2019 – 2021

Section for Clinical and Computational Psychiatry | National Institute of Mental Health

Principal Investigator: Dr. Argyris Stringaris

- Lead test-retest reliability assessment of longitudinal fMRI data of adolescents with depression
- Developed fMRI functional connectivity analysis pipeline
- Planned and executed longitudinal analysis of neuroimaging biomarkers for adolescent anhedonia
- Managed treatment, tasking, and data tracking of 100+ patients
- Wrote programs to expedite patient scheduling, data collection, and analysis

Research Assistant

2016 – 2019

Imagination and Modal Cognition Lab | Duke University

Principal Investigator: Dr. Felipe De Brigard

- Completed honors thesis: Graph theory analysis of hippocampal network architecture during plausible and implausible episodic counterfactual thinking
- Explored potential new methods of topological analysis
- Performed human subject research relating to counterfactual thinking and memory
- Conducted meta-analysis of graph theory studies

Research Assistant

2014 – 2015, 2016

Brain, Cognition, and Development Lab | Medical University of South Carolina

Principal Investigator: Dr. Jane Joseph

- Generated graph theory measures to analyze resting state fMRI data from NIH SCOR project
- Developed Brain Connectivity Toolbox pipeline in MATLAB for lab use
- Preprocessed fMRI data and constructed functional connectivity matrices
- Trained others to use pipeline in subsequent studies

AWARDS, HONORS, & GRANTS

- NSF GRFP Fellow
- Yale Gruber Science Fellowship
- NSF GRFP Honorable Mention
- Highest Distinction on Honors Thesis
- Duke Psychology & Neuroscience Undergraduate Travel Award for CNS 2019
- Bass Connections *Brain and Society* Research Grant

PUBLICATIONS

Camp, C. C., Noble, S., Scheinost, D., Stringaris, A., & Nielson, D. M. (2023). Test-retest reliability of functional connectivity in depressed adolescents. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. <https://doi.org/10.1016/j.bpsc.2023.09.002>

Dadashkarimi, J., Karbasi, A., Liang, Q., Rosenblatt, M., Noble, S., Foster, M., Rodriguez, R., Adkinson, B., Ye, J., Sun, H., **Camp, C.**, Farruggia, M., Tejavibulya, L., Dai, W., Jiang, R., Pollatou, A., & Scheinost, D. (2023). Cross Atlas Remapping via Optimal Transport (CAROT): Creating connectomes for different atlases when raw data is not available. *Medical Image Analysis*, 88, 102864. <https://doi.org/10.1016/j.media.2023.102864>

Scheinost, D., Pollatou, A., Dufford, A. J., Jiang, R., Farruggia, M. C., Rosenblatt, M., Peterson, H., Rodriguez, R. X., Dadashkarimi, J., Liang, Q., Dai, W., Foster, M. L., **Camp, C. C.**, Tejavibulya, L., Adkinson, B. D., Sun, H., Ye, J., Cheng, Q., Spann, M. N., ... Westwater, M. L. (2023). Machine Learning and Prediction in Fetal, Infant, and Toddler Neuroimaging: A Review and Primer. *Biological Psychiatry*, 93(10), 893–904. <https://doi.org/10.1016/j.biopsych.2022.10.014>

Sadeghi, N., Fors, P. Q., Eisner, L., Taigman, J., Qi, K., Gorham, L. S., **Camp, C. C.**, O'Callaghan, G., Rodriguez, D., McGuire, J., Garth, E. M., Engel, C., Davis, M., Towbin, K. E., Stringaris, A., & Nielson, D. M. (2022). Mood and Behaviors of Adolescents With Depression in a Longitudinal Study Before and During the COVID-19 Pandemic. *Journal of the American Academy of Child & Adolescent Psychiatry*. <https://doi.org/10.1016/j.jaac.2022.04.004>

Lisa Gorham, Neda Sadeghi, Lillian Eisner, Jeremy Taigman, Kate Haynes, Karen Qi, **Chris Camp**, Payton Fors, Diana Rodriguez, Jerry McGuire, Erin Garth, Chana Engel, Mollie Davis, Kenneth Towbin, Argyris Stringaris, & Dylan M. Nielson (2021). Clinical Utility of Family History of Depression for Prognosis of Adolescent Depression Severity and Duration Assessed with Predictive Modelling. *Journal of Child Psychology and Psychiatry*. <https://doi.org/10.1111/jcpp.13547>

Dylan M. Nielson, Hanna Keren, Georgia O'Callaghan, Sarah M. Jackson, Ioanna Douka, Charles Y. Zheng, Pablo Vidal-Ribas, Narun Pornpattananankul, **Christopher C. Camp**, Lisa S. Gorham, Christine Wei, Stuart Kirwan, Argyris Stringaris (2020). Great Expectations: A Critical Review of and Recommendations for the study of Reward Processing as a Cause and Predictor of Depression. *Biological Psychiatry*. <https://doi.org/10.1016/j.biopsych.2020.06.012>

Joseph, J. E., Vaughan, B. K., **Camp, C.**, Baker, N. L., Sherman, B. J., Moran-Santa Maria, M., McCrae-Clark, A., Brady, K. T. (2019). Oxytocin-Induced Changes in Intrinsic Network Connectivity in Cocaine Use Disorder: Modulation by Gender, Childhood Trauma, and Years of Use. *Frontiers in Psychiatry*, 10(502). <https://doi.org/10.3389/fpsyt.2019.00502>

Moran-Santa Maria, M., Vanderweyen, D., **Camp, C.**, Zhu, X., McKee, S., Cosgrove, K., Hartwell, K., Brady, K., & Joseph, J. E. (2017). Network analysis of intrinsic functional brain connectivity in male and female adult smokers: A Preliminary study. *Nicotine and Tobacco Research*, 20(7), 810-818.
<https://doi.org/10.1093/ntr/ntx206>

MENTORSHIP

Yale BBS Diversity and Inclusion Collective (YBDIC)

Lester Rodriguez

Spring 2022

Current position: 1st year Neuroscience PhD student at Yale University

Yale Program to Advance Training in Health & Sciences (PATHS)

Diego Orellana

Fall 2021 – Spring 2022

Current position: Junior Specialist in the Nayak Lab, University of California San Francisco

TEACHING, LEADERSHIP, AND COMMUNITY ENGAGEMENT

Founding Member

2022 – Present

Yale INP Diversity, Equity, and Inclusion Committee

- Established bylaws and mission
- Increase protections from abuse for underrepresented graduate students
- Initiate and facilitate DEI-focused journal club

Head Proctor, Accommodations Assistant

2021 – Present

Student Accessibility Services

- Coordinate and supervise exam accommodations for Yale College students
- Proctor exams for students with testing accommodations
- Plan exam schedules during twice-weekly 5-hour shift

Ombudsperson, Researcher

2021 – Present

New Haven Rising

- Elected ombudsperson of graduate student branch to resolve conflicts and promote communication among volunteers
- Research and strategize systems to improve wealth equity in New Haven
- Campaign for political candidates upholding New Haven's best interests
- Community outreach and door-knocking to hear residents' primary concerns

Member

2020 – 2021

D.C. Ward 1 Mutual Aid

- Organized monthly distribution of 14,000 free diapers to community members
- Distributed mutual aid emergency funds for street vendors ineligible for government support
- Researched healthcare options and emergency housing for undocumented vendors
- Conducted interviews in Spanish to document vendor experiences

President

2018 – 2019

Duke University Ski & Snowboard Team

- Managed 71-member team with \$30,000 budget
- Qualified for National Championship
- Organized competition season and week-long training trip in Banff, CA

Men's Engagement Intern**2018 – 2019**

Duke Women's Center

- Designed and facilitated workshops on communication within sexual health and pleasure
- Facilitated discussions on culture and inclusivity with student groups
- Planned events to promote intersectional feminism on campus including workshops with notable speakers, outreach programs for first-years, and film screenings
- Served on leadership team of Duke Men's Project, an organization focused on exploring methods through which masculinity can better accommodate feminism

CONFERENCES & WORKSHOPS

Neuroimaging Statistics Workshop	2023
Organization for Human Brain Mapping	2023
Society for Neuroscience	2023
Yale Neuroday (co-chair)	2022
Computational Psychiatry Course and Conference	2022
Society of Biological Psychiatry Annual Conference	2022
Society for Neuroeconomics Annual Meeting	2021
ABCD-ReproNim Course	2020 – 2021
Organization of Human Brain Mapping BrainHack	2020
NIH Academy Certificate Program (awardee)	2019 – 2020
Cognitive Neuroscience Society Annual Meeting	2019, 2020
NIH Center for Multimodal Neuroimaging Workshop	2019
NIH Division of Translational Research Retreat	2019
Duke University Summer Seminars in Philosophy and Neuroscience	2018

PRESENTATIONS

Camp, C. and Scheinost, D. (2023) Translating Between Effect Size and Classification Accuracy. Talk given at Neuroimaging Statistics Workshop.

Camp, C. and Scheinost, D. (2023) Translating Between Effect Size and Classification Accuracy. Poster presented at Organization for Human Brain Mapping Annual Meeting.

Keren, H., and **Camp, C.** (presenting) (2022) The temporal representation of experiences in mood. Nanosymposium presentation at Society for Neuroscience Annual Meeting.

Camp, C., Eisner, L., Noble, S., Scheinost, D., Stringaris, A., and Nielson, D.M. (2022). Reliability of resting state functional connectomes in depressed adolescents. Data Blitz presentation at Yale Neuroday 2022.

Camp, C., Eisner, L., Noble, S., Scheinost, D., Stringaris, A., and Nielson, D.M. (2022). Reliability of resting state functional connectomes in depressed adolescents. Poster presented at Computational Psychiatry Course and Conference.

Camp, C., Eisner, L., Noble, S., Scheinost, D., Stringaris, A., and Nielson, D.M. (2022). Reliability of resting state functional connectomes in depressed adolescents. Poster presented at Society of Biological Psychiatry Annual Conference.

Dylan M. Nielson, Hanna Keren, Georgia O'Callaghan, Sarah M. Jackson, Ioanna Douka, Charles Y. Zheng, Pablo Vidal-Ribas, Narun Pornpattananangkul, **Christopher C. Camp**, Lisa S. Gorham, Christine Wei, Stuart Kirwan, Argyris Stringaris (2020). Great Expectations: A Critical Review of and Recommendations for the study of Reward Processing as a Cause and Predictor of Depression. Paper presented at NIH Fellows' Afternoon Neuroscience Seminar. Virtual.

Camp, C., Neilson, D., Keren, H., O'Callaghan, G., Jackson, S. M., Gorham, L., & Stringaris, A. (2020). Longitudinal reliability of functional connectivity in depressed adolescents. Poster presented at the Cognitive Neuroscience Society Annual Meeting. Virtual.

Camp, C., Neilson, D., Keren, H., O'Callaghan, G., Jackson, S. M., Gorham, L., & Stringaris, A. (2020). Longitudinal reliability of functional connectivity in depressed adolescents. Poster presented at the National Institutes of Health Postbac Poster Day. Virtual.

Camp, C., Geib, B., Stanley, M., Parikh, N., & De Brigard, F. (2019). Dynamic Integration of the Hippocampus during Episodic Counterfactual Thinking. Poster presented at the Cognitive Neuroscience Society Annual Meeting. San Francisco, CA, USA.

SOFTWARE

Dale Zhou, Maxwell A. Bertolero, Jennifer Stiso, Eli J. Cornblath, Erin G. Teich, Ann S. Blevins, Virtualmario, **Christopher Camp**, Jordan D Dworkin, and Danielle S. Bassett. Diversity statement and code notebook v1.1. 2020. doi: 10.5281/zenodo.4062888.

REVIEW & EDITORIAL SERVICES

NeuroImage (2), **Nature Methods** (1), **Nature Neuroscience** (1), **Network Neuroscience** (1), **Human Brain Mapping** (1)

TECHNICAL & LANGUAGE SKILLS

Python, R, MATLAB, Java proficiency

- Write and optimize scripts for fMRI graph theory, functional connectivity, test-retest reliability analysis
- Automate patient scheduling and data collection
- Graph theory, PPI, ICC, dictionary learning
- CS 201: Data Structures and Algorithms, PSY 201L: Introduction to Statistical Methods in Psychology

AFNI, fMRIPrep, SPM proficiency

- Preprocess fMRI data
- Generate visualizations of neural activity

Spanish proficiency

- Work with DC Mutual Aid group Vendedores Unidos to support community of street vendors during pandemic
- Full immersion study abroad semester in Madrid: lived with host family, took classes at Universidad San Carlos III
- Conducted ~100 Spanish interviews for Duke Engage research project in Neltume, Chile
- 7 years of study, Minor in Spanish