

ORI ZAFF

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1508 Green St
Philadelphia, PA 19130

EDUCATION

- MA** University of Delaware, Linguistics & Cognitive Science *Grad: June 2019*
GPA: 3.93
Advisor: Dr. Irene Vogel
- BS** University of Delaware, Cognitive Science *Grad: May 2018*
GPA: 3.67
Psychology concentration, Honors Award, Dean's List 2014-2018

RESEARCH EXPERIENCE

TBI Research Initiative, University of Pennsylvania *Sept 2023 - Present*
Clinical Research Coordinator - Level C, PI: Dr. Ramon Diaz-Arrastia

- Project: Assessment of microvascular injury and clinical outcomes after trauma
- Launching and coordinating multi-site human neuroimaging study
- Analysis of cerebrovascular reactivity fMRI data and diffusion tensor imaging
- Clinical trial IRB protocol setup, management, and modification
- Approaching, assessing, and enrolling acute care patients directly following injury
- Administering and evaluating psychometric evaluations of cognition

Neuroeconomics Lab, Temple University *Aug 2021 - August 2023*
Research Coordinator, PI: Dr. David V. Smith

- Project: Social reward processing across the lifespan
- Coordinating longitudinal R01 research project
- fMRI data collection and data processing
- Data analysis in Python, MATLAB, R, and SPSS, as well as BASH scripting
- Creating project materials ranging from IRB documents to experimental tasks
- Training and managing 10 research assistants in data collection, scoring, and analysis

IBM, Computational Psychiatry and Neuroimaging Department *Jun - Aug 2018*
Summer Student, PIs: Dr. Guillermo Cecchi, Dr. Mary Pietrowicz

- Project: Mental health trajectory detection by sentiment analysis
- Feature selection for Watson Natural Language Understanding AI pipeline

Shohamy Learning Lab, Columbia University *May - Aug 2016*
Research Assistant, PI: Dr. Daphna Shohamy

- Project: Experiments studying effects of reward salience on graded and retroactive prioritization of memory
- Collected human subject fMRI data and constructed experimental materials

- Project: Effects of Geometric Toy Design on Parent-Child Interactions and Spatial Language
- Collected and analyzed observational data from child participants

MANUSCRIPTS PUBLISHED & IN PREPARATION

- Zaff, O.**, Wyngaarden, J. B., Dennison, J. B., Sazhin, D., Chein, J., Alloy, L. B., McCloskey, M., Jarcho, J. M., Smith, D. V., Fareri, D. (2023). Social Context and Reward Sensitivity Enhance Corticostriatal Function during Experiences of Shared Rewards. Preprint available on [bioRxiv](https://doi.org/10.1101/2023.11.01.561111).
- Wyngaarden, J. B., Johnston, C. R., Sazhin, D., Dennison, J. B., **Zaff, O.**, Fareri, D., McCloskey, M., Alloy, L. B., Smith, D. V., Jarcho, J. M. (2024). Corticostriatal Responses to Social Reward are Linked to Trait Reward Sensitivity and Substance Use in Young Adults. *Social Cognitive and Affective Neuroscience*, 19(1). <https://doi.org/10.1093/scan/nsae033>.
- Smith, D. V., Wyngaarden, J., Sharp, C. J., Sazhin, D., **Zaff, O.**, Jarcho, J., Fareri, D. (2023). An fMRI dataset of social and nonsocial reward processing in young adults. *Data In Brief*, 53. <https://doi.org/10.1016/j.dib.2024.110197>.
- Sazhin, D., Wyngaarden, J. B., Dennison, J. B., **Zaff, O.**, Fareri, D., McCloskey, M., Alloy, L. B., Jarcho, J. M., Smith, D. V. (2023). Trait Reward Sensitivity Modulates Connectivity with the Temporoparietal Junction and Anterior Insula during Strategic Decision Making. Preprint available on [bioRxiv](https://doi.org/10.1101/2023.11.01.561111).
- Smith, D. V., Dennison, J., **Zaff, O.**, Wyngaarden, J., Dowdle, L., Jarcho, J., Olson, I., Rorden, C., & Fareri, D. (in prep). Characterizing the effects of multiecho and multiband imaging on corticostriatal responses to reward.

POSTERS

- Zaff, O.**, Walter, A., Parker, D., Darnley, S., Kalyani, P., Anderson, G., Chan, A., Ware, J., Verma, R., Diaz-Arrastia, R. (June, 2024). *Trajectories of traumatic axonal injury as measured by diffusion tensor imaging*. National Neurotrauma Society; San Francisco, USA.
- Zaff, O.**, Yang, Y., Wyngaarden, J. B., Dachs, A., Sharp, C., Collins, M. J., Sazhin, D., Ludwig, R. M., Giovannetti, T., Fareri, D. S., Smith, D. V. (November, 2023). *Associations between Age and Neural Response to Reward in Social Contexts*. Society for Neuroscience; Washington D.C., USA.
- Wyngaarden, J. B., **Zaff, O.**, Sazhin, D., Dachs, A., Collins, M., Johnston, C. R., Giovannetti, T., Jarcho, J. M., Smith, D. V. (November, 2023). *Age-Related Differences in Social Reward Processing*. Society for Neuroscience; Washington D.C., USA.
- Sazhin, D., Wyngaarden, J. B., **Zaff, O.**, Ludwig, R. M., Collins, M., Sharp, C., Dachs, A., Nambiar, A., Dennison, J. B., Drayton, M., Tropea, T., Clithero, J. A., Giovannetti, T., Smith, D. V. (November, 2023). *Characterizing Age-Related Differences in Neural*

- Responses During the Ultimatum Game*. Society for Neuroscience; Washington D.C., USA.
- Dachs, A., Sharp, C. J., Yanilmaz, E., Wyngaarden, J. B., **Zaff, O.**, Tropea, T., Sazhin, D., Ludwig, R. M., Giovannetti, T., Fareri, D. S., Smith, D. V. (November, 2023). *Examining Age-Related Differences in Neural Responses to Trust*. Society for Neuroscience; Washington D.C., USA.
- Smith, D. V., Dennison, J. B., **Zaff, O.**, Wyngaarden, J. B., Collins, M., Dowdle, L., Jarcho, J., Olson, I., Inglis, B., Morgan, P., Rorden, C., Fareri, D. S. (July, 2023). *Characterizing the Effects of Multiecho and Multiband Imaging on Corticostriatal Responses to Reward*. Organization for Human Brain Mapping; Montreal, Canada.
- Wyngaarden JB, Sharp CJ, Dennison JB, Sazhin D, **Zaff, O.**, Olson I, Fareri DS, Jarcho J, Smith DV (July, 2023). *Task-Dependent Functional Connectivity with the Cerebellum is Confounded by Nyquist Ghosting*. Organization for Human Brain Mapping; Montreal, Canada.
- Zaff, O.**, Dennison, J. B., Sazhin, D., Wyngaarden, J. B., Vafiadis, A., Collins, M., Nguyen, A., Chein, J., Alloy, L., Jarcho, J., Fareri, D., Smith, D. V. (November, 2022). *Individual Differences in Substance Use are Associated with Elevated Temporoparietal Junction Responses to Rewards Shared with Friends*. Society for Neuroscience; San Diego, CA, USA.
- Sazhin, D., Dennison, J. B., Wyngaarden, J., **Zaff, O.**, Vafiadis, A., Kahn, N., Collins, M., Nguyen, A., Kohli, I., Fareri, D., McCloskey, M., Alloy, L., Jarcho, J., Smith, D. V. (November, 2022). *When Do We Choose to Be Fair? Strategic Choices in Bargaining Situations Are Associated with Elevated Corticostriatal Connectivity*. Society for Neuroscience; San Diego, CA, USA.
- Sazhin, D., Dennison, J., Wyngaarden, J., Vafiadis, A., **Zaff, O.**, Kahn, N., Collins, M., Nguyen, A., Kohli, I., Fareri, D., McCloskey, M., Jarcho, J., Smith, D.V. (May, 2022). *Strategic Decisions in Bargaining Situations Are Associated with Activation in the Caudate*. Social and Affective Neuroscience Society. [Virtual meeting due to COVID-19]
- Wyngaarden, J. B., Johnston, C. R., Sazhin, D., Dennison, J. B., Vafiadis, A., **Zaff, O.**, Kahn, N., A., Collins, M., Nguyen, A., Fareri, D., McCloskey, M., Alloy, L., Smith, D. V., Jarcho, J. M. (May, 2022). *Alcohol Use is Associated with Enhanced Corticostriatal Connectivity with Precuneus During Social Reward*. Social and Affective Neuroscience Society. [Virtual meeting due to COVID-19]

TEACHING/LEADERSHIP EXPERIENCE

Traumatic Brain Injury Support Group

Sept 2023 - Present

Facilitates monthly discussion-based support group meetings as community outreach initiative

Trauma Literature Discussion Group

Sept 2021 - Aug 2023

Presents on emerging research at a monthly discussion group for literature surrounding trauma and adverse childhood experiences

Congregations Kol Ami & Emanu-el, White Plains, NY

Sept 2019 - June 2021

Hebrew Language Teacher, 4th - 6th grade, and High School Leadership Program

University of Delaware, Newark, DE
Teaching Assistant, Dr. Mende-Siedlecki, Research Methods

Feb - May 2019

University of Delaware, Newark, DE
Workshop Instructor, Dr. Graves, General Chemistry

Sept - Dec 2015

OTHER WORK EXPERIENCE

ExposeBox, Tel Aviv
Quality Assurance Engineer, UI/UX design and troubleshooting

Jun 2017 - Jan 2018

SKILLS

Programming Experience: Python, BASH Scripting (and Command Line Interfacing), R, Visual Basic, MATLAB, HTML

Software: FSL, Microsoft Word/Excel/PowerPoint, Adobe Creative Suite, GingerALE, REDCap, PennChart (Epic), Sketch-Up & Makerware 3D Design/Printing

Hardware: Siemens 3T fMRI operation, Blood Pressure Monitor, Professional Digital Audio/Video Recording Equipment

CERTIFICATIONS

Temple University Brain Imaging Research & Imaging Center - Scan Technician Access (Level 3)

UPenn Center for Magnetic Resonance Imaging and Spectroscopy - Scanner Operating Access (Level 2)

Suicide Prevention Resource Center - Strategic Planning Approach to Suicide Prevention, & Locating and Understanding Data for Suicide Prevention

CITI - Social & Behavioral, Good Clinical Practices, Responsible Conduct of Research

ACRP - Clinical Trials, Informed Consent, Ethics and Human Subject Protection

Epic for Researchers - Complete PennChart Clinical Coordinator Training

REDCap - HIPAA Best Practices Training

Phlebotomy Training - Procedures for blood draw (Perivascular Nurse Consultants)

LANGUAGES

English (native)

Hebrew (near native)