

Jacob J. Elder

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EDUCATION

Ph.D. | UNIVERSITY OF CALIFORNIA, RIVERSIDE CA **Expected June 2023**
Social Psychology; Quantitative Minor
Advisor: Brent Hughes, Ph.D.

M.A. | UNIVERSITY OF CALIFORNIA, RIVERSIDE CA **2020**
Social Psychology
Advisor: Brent Hughes, Ph.D.

B.A. | UNIVERSITY OF CALIFORNIA, LOS ANGELES CA **2015**
Psychology, Cum Laude, Departmental Honors

EMPLOYMENT

UC Riverside GradQuant **Summer 2022 – Current**
Quantitative Consultant
Supervisors: Jason Chou, M.A., Kevin Easterling, Ph.D. & Diogo Ferrari, Ph.D.

JK LIFESPAN DEVELOPMENT LAB, VIRGINIA TECH **May 2016 – April 2018**
Research Coordinator
Supervisors: Jungmeen Kim-Spoon, Ph.D. & Brooks King-Casas, Ph.D.

HONORS AND AWARDS

Travel Grant for Princeton “Measuring Belief Systems in Network Communities” Conference	Fall 2022
Travel Grant for University of Michigan Training Course in fMRI	Summer 2022
HEERF Dissertation Year Fellowship - \$7,200	Winter 2022
SPSP 2022 Graduate Travel Award - \$500	Fall 2021
National Science Foundation Graduate Research Fellowship – Honorable Mention	Winter 2020
SPSP 2020 Graduate Travel Award - \$500	Fall 2019
UC Research Provost Fellowship Award - \$51,000	Fall 2018
Departmental Honors	Spring 2015
Cum Laude	Spring 2015
UCLA Dean’s List	2011 - 2015

PUBLICATIONS

*indicates equal contributions

Published Articles

Derreumaux, Y., **Elder, J.**, Quimby, T., Suri, G., Ben-Zeev, A., & Hughes, B. (in press). Stereotypes disrupt probabilistic category learning. *Journal of Experimental Psychology: General*.

Elder, J., Cheung, B., Davis, T., & Hughes, B.L (in press). Mapping the Self: A network approach to understand behavioral and neural representations of self-concept structure. *Journal of Personality and Social Psychology*.

Elder, J., Davis, T., & Hughes, B. L. (2022). Learning About the Self: Motives for Coherence and Positivity Constrain Learning From Self-Relevant Social Feedback. *Psychological Science*, 09567976211045934.

Kim-Spoon, J., Herd, T., Briant, A., **Elder, J.,** Lee, J., Deater-Deckard, K., & King-Casas, B. (2021). A 4-year longitudinal neuroimaging study of cognitive control using latent growth modeling: developmental changes and brain-behavior associations. *NeuroImage*, 237, 118134.

Elder, J., Briant, A., Lauharatanahirun, N., King-Casas, B., & Kim-Spoon, J. (2019). Insular risk processing predicts alcohol use via externalizing pathway in male adolescents. *Journal of Studies on Alcohol and Drugs*, 80(6), 602-613.

Manuscripts Under Review

Elder, J.*, Derreumaux, Y.*, & Hughes, B.L (under review). Preference Falsification: How Social Conformity as an Interdependent, Recursive, and Multilevel Process Corrupts Public Knowledge.

Margolis, S., **Elder, J.,** Hughes, B., & Lyubomirsky, S. (under review). What Are the Most Important Predictors of Subjective Well-Being?: Insights Using Machine Learning and Linear Regression Approaches on the MIDUS Datasets.

Elder, J., Davis, T., & Hughes, B. (under review). A fluid self-concept: How the brain achieves a coherent and positive self-concept while incorporating social feedback

Elder, J.*, Wilson, L.*, & Calanchini, J. (under review). Estimating the reliability and stability of cognitive processes contributing to implicit attitudes.

Derreumaux, Y.*, **Elder, J.*,** & Hughes, B. (under review). The influence of group norms and affective polarization on expressed ideology.

Elder, J., Davis, T., & Hughes, B. (under review). Competing motivations in self-representation: People self-derogate to assimilate group norms.

Elder, J., Davis, T., & Hughes, B. (under review). Self-concept certainty and stability is associated with semantic structure among trait self-beliefs.

Manuscripts In Preparation

Elder, J., Cheung, B., Hopkins, J., Davis, T., & Hughes, B. (in prep). Positive information is more similar than negative information during self-referential processing: A repetition suppression study.

Elder, J., Davis, T., & Hughes, B. (in prep). When “I” Shifts to “We”: Network modeling of identity-to-identity and identity-to-trait beliefs predicts personal self-views.

Elder, J., Davis, T., & Hughes, B. (in prep). The effect of identity threat on downstream self-views and connected social identities.

Elder, J., & Hughes, B. (in prep). Longitudinal changes in social identity network structure and social identification.

Elder, J., & Hughes, B. (in prep). New frontiers in self-concept malleability: Mathematical models of self- and identity-learning.

Elder, J., Davis, T., & Hughes, B. (in prep). Self-anchoring: Projecting the self onto ingroups via similarity-based inference

Elder, J., & Hughes, B. (in prep). Word embeddings reflect self-stereotyping

Elder, J., & Hughes, B. (in prep). Discourse in self-disclosure focused communities: Topic modeling of “self-referential” Reddit communities

INVITED CONFERENCE TALKS & PRESENTATIONS

*indicates mentored undergraduate author

Talks

Elder, J., Davis, T., Hughes, B., (2022): *Propagation of Feedback in the Self-Concept: Semantic structure facilitates learning about the self from social feedback.* “Measuring Belief Systems in Networked Communities” Small Group Conference, Princeton, CA.

Elder, J. (2022): *Discussion of “Big Little Lies: A Compendium and Simulation of p-Hacking Strategies”.* UC Riverside Quantitative Proseminar, Riverside, CA.

Elder, J., Davis, T., Hughes, B., (2021): *Propagation of Feedback in the Self-Concept: Memory traces and error-based learning in ventromedial prefrontal cortex support self-concept coherence.* UC Riverside Social Psychology Proseminar, Riverside, CA.

Elder, J., Cheung, B., Davis, T., Hughes, B., (2021): *Mapping the self: A network approach to understand behavioral and neural representations of self-concept structure.* Social & Affective Neuroscience Society Convention, Santa Barbara, CA.

Elder, J. (2021): *The Fixed Effects Fallacy.* UC Riverside Quantitative Proseminar, Riverside, CA.

Elder, J., Cheung, B., Davis, T., Hughes, B., (2020): *Mapping the self: A network approach to understand neural representations of self-concept structure.* International Symposium for Networking in Neuroscience, Remote due to COVID-19.

Elder, J., Cheung, B., Davis, T., Hughes, B., (2020): *Mapping the self: A network approach to understand neural representations of self-concept structure.* UC Riverside Social Psychology Proseminar, Riverside, CA.

Elder, J., Cheung, B., Davis, T., Hughes, B., (2020): *Learning About the Self: Motivations for coherence and positivity bias learning from self-relevant feedback.* UC Riverside Social Psychology Proseminar, Riverside, CA.

Posters

Elder, J., Davis, T., & Hughes, B., (2022): *Competing Motives: How the motivation to evaluate oneself as like the group conflict with the motivation to view oneself positively.* Society for Personality and Social Psychology Convention, Atlanta, GA.

- Elder, J.**, Davis, T., & Hughes, B., (2022): *Retrieval, Decisions, and Updates in the Self-Concept: Propagation of Feedback and Maintenance of Coherence in the Self-Concept*. Social and Affective Neuroscience Society Conference, Remote.
- Elder, J.**, Davis, T., & Hughes, B., (2022): *Retrieval, Decisions, and Updates in the Self-Concept: Propagation of Feedback and Maintenance of Coherence in the Self-Concept*. Society for Personality and Social Psychology Convention, San Francisco, CA.
- Elder, J.**, Davis, T., & Hughes, B., (2022): *Retrieval, Decisions, and Updates in the Self-Concept: Propagation of Feedback and Maintenance of Coherence in the Self-Concept*. Society for Personality and Social Psychology Convention, Social Cognition Preconference, San Francisco, CA.
- Won, H. *, **Elder, J.**, & Hughes, B. (2021): *Moral emotions shape ensemble coding of faces*. UC Riverside Psychology Undergraduate Research Conference, Remote due to COVID-19.
- Chen, C.* , Hanna, M.* , Derreumaux, Y., **Elder, J.**, & Hughes, B. (2021): *Preference Falsification: Motivated misrepresentation of beliefs to outgroup political members*. UCLA Psychology Undergraduate Research Conference, Remote due to COVID-19.
- Elder, J.**, Cheung, B., Davis, T., & Hughes, B., (2021): *Mapping the self: A network approach to understand behavioral and neural representations of self-concept structure*. Social & Affective Neuroscience Society Convention, Santa Barbara, CA.
- Hopkins, J. *, **Elder, J.**, Cheung, B., Davis, T., & Hughes, B., (2021): *Self- and semantic-related brain regions adapt to similarity within the self-concept*. Society for Personality and Social Psychology Convention, Remote poster due to COVID-19.
- Elder, J.**, Cheung, B., Davis, T., & Hughes, B., (2021): *Learning About the Self: Neural mechanisms underlying malleability in self-views*. Society for Personality and Social Psychology Convention, Remote poster due to COVID-19.
- Hopkins, J. R. *, **Elder, J.**, & Hughes, B., (2020). *Individual Differences in Susceptibility to Self-Concept Change: Examining Inter-Individual Malleability of Self-Views as Reward-Based Learning*. Western Psychological Association Convention, San Francisco, CA.
- Hopkins, J. R. *, Sohal, S. *, **Elder, J.**, & Hughes, B., (2020). *Individual Differences in Susceptibility to Self-Concept Change: Examining Inter-Individual Malleability of Self-Views as Reward-Based Learning*. UCR R'Psych Undergraduate Psychology Conference, Remote due to COVID-19.
- Elder, J.**, Cheung, B., Davis, T., & Hughes, B., (2020): *Mapping the self: A network approach to understand behavioral and neural representations of self-concept structure*. Society for Personality and Social Psychology Convention, New Orleans, LA.
- Elder, J.**, Davis, T., & Hughes, B., (2020): *Learning about the self: A computational framework for understanding dynamic self-concept change*. Society for Personality and Social Psychology Convention, Self & Identity Preconference, New Orleans, LA.
- Derreumaux, Y., **Elder, J.**, Quimby, T., Suri, G., Ben-Zeev, A., & Hughes, B. (2019): *Social Interference in Probabilistic Learning: Do non-diagnostic (task irrelevant) social stimuli interfere with categorical learning?* Society for Personality and Social Psychology Convention, New Orleans, LA.
- Briant, A., **Elder, J.**, King-Casas, B., & Kim-Spoon, J. (2018) *Socioeconomic risk for adolescent executive function and emerging risk behaviors*. Society for Research on Adolescence Conference, Minneapolis, MN.

Peviani, K., Briant, A., Holmes, C., **Elder, J.**, Deacon, J., King-Casas, B., & Kim-Spoon, J. (2018) *Intergenerational Transmission of Substance Use: Contributions of Parents, Peers, and Religious Socialization*. Society for Research on Adolescence Conference, Minneapolis, MN.

Elder, J., Briant, A., King-Casas, B., & Kim-Spoon, J. (2017). *Externalizing pathway of male adolescent substance use*. American Psychological Association Convention, Boston, MA

Elder, J., Capellino, Y., Castro-Moino, K., Zhang, Y., Tuvshin, S., Bell, A. N., & Goff, P. A. (2015). *Putting ourselves together: Intersectional health implications of gender expression*. Western Psychological Association Annual Convention, Las Vegas, NV

TEACHING EXPERIENCE

Average overall effectiveness rating (AOE) out of 7

*indicates graduate student course

GradQuant Statistics Bootcamp* [Summer 2022] – Instructor – AOE: n/a

Principles of Data Science* [Winter 2022] – Teaching Assistant – AOE: 6.71

Applied Longitudinal Data Analysis* [Fall 2021] – Teaching Assistant – AOE: 7

Statistical Procedures [Summer 2021] – Teaching Assistant – AOE: 7

Latent Variable Modeling* [Spring 2021] – Teaching Assistant – AOE: 6.27

Principles of Data Science* [Winter 2021] – Teaching Assistant – AOE: 6.60

Programming in R* [Fall 2020] – Teaching Assistant – AOE: 6.27

Introduction to Experimental Psychology [Summer 2020] – Teaching Assistant – AOE: n/a

Multinomial Processing Trees* [Spring 2020] – Teaching Assistant – AOE: n/a

Human Neuroimaging [Winter 2020] – Teaching Assistant – AOE: 5.85

Research Methods [Fall 2019] – Teaching Assistant – AOE: 5.82

Social Psychology [Summer 2019] – Teaching Assistant – AOE: n/a

WORKSHOPS & SEMINARS

Neuromatch Academy: Deep Learning (2022). Remote

fMRI Summer Workshop (2022). Ann Arbor, Michigan. (Postponed from 2020 to 2022 due to COVID-19)

Agent-based Modelling of Political Polarization (2022). Bamberg, DE and Remote.

Summer School in Social Neuroscience & Neuroeconomics (2020). Durham, NC. (Accepted, canceled due to COVID-19)

Neurohackademy (2020). Remote. (Online due to COVID-19)

PEER REVIEWS

Editing

Personality and Social Psychology Review, Emerging Editor

2022 - 2024

UCLA Psychology Undergraduate Research Journal, Editor

2013 - 2015

Ad Hoc Reviews

Social Cognitive and Affective Neuroscience

2022

Assisted Reviews

British Journal of Social Psychology	2022
Journal of Experimental Social Psychology	2021
Psychological Science	2020
Social Cognitive and Affective Neuroscience	2020
Cerebral Cortex	2020
Cognition	2019

PROFESSIONAL AFFILIATIONS

Psi Chi
 Association for Psychological Science
 Society for Personality and Social Psychology
 Social and Affective Neuroscience Society

UNDERGRADUATE MENTORING

Liana Willis – Poster
 Haemi Won – Independent Project, Talk
 Crystal Chen – Data Analysis, Writing, Poster
 Matthew Hanna – Data Analysis, Writing, Poster
 Farha Ahmed – Data Analysis, Writing
 Kimberly Chen – Data Analysis
 Julia Hopkins – Posters, Data Analysis, Independent Project
 Simrit Sohan – Poster, Data Analysis

SKILLS**Computer Software:**

MPlus; FSL; SPM; Freesurfer; R; Python; Stan; Bash; MATLAB; Word; Excel; Powerpoint; Zotero; Qualtrics; SurveyMonkey; Docker

Libraries:

Python: Numpy; Pandas; Matplotlib; Scikit Learn; Nilearn; Pytorch; Torchtext
R: tidyverse; lavaan; ggplot2; psych; lme4; caret; optimx; bayestest; rstanarm; brms

Methods:

Design: Survey research; Experimental design; Correlational; Neuroimaging; Simulation; Psychometrics
Frequentist Statistics: General Linear Model; Generalized Linear Model; Mixed Effects Models; Parametric and non-parametric data
Bayesian Statistics: MCMC; Hierarchical Bayesian Models; Bayesian regression
Latent variable modeling: Factor analysis; Structural equation modeling
Cognitive computational models: Reinforcement learning; Multinomial processing trees; network analysis; Model fitting and optimization
Exploratory Data Analysis: Dimensionality reduction (i.e., Canonical Correlation Analysis; Principal Component, Multidimensional Scaling); Agent-Based Modeling

Data Visualization: Scatterplots; Lineplots; Timeseries; Barplots; Predicted effects; Tables; Neuroimaging Statistical Maps
Machine Learning: Natural Language Processing; Cross-validation; Neural Networks; Unsupervised Learning
(Hierarchical Clustering; K-Means)
Neuroimaging: Acquisition; Design; GLM; Functional Connectivity; Volumetric Analysis; Multivoxel Pattern Analysis
Efficiency: Parallelization; High-performance cluster; Batch processing; Object-oriented programming