

# KATIE CHENG

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## EDUCATION

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| <b>Ph.D. Education</b>   | <b>Stanford University</b> | <b>2014 – 2020</b> |
| • Concentrations in Learning Sciences and Technology Design and Educational Psychology |                            |                    |
| <b>M.S. Computer Science</b>   | <b>Stanford University</b> | <b>2016 – 2018</b> |
| • Concentration in Human Computer Interaction  |                            |                    |
| <b>B.A. Cognitive Science</b>  | <b>UC Berkeley</b>         | <b>2008 – 2011</b> |
| • Concentration in Cognitive Neuroscience, awarded High Honors                         |                            |                    |

## PROFESSIONAL EXPERIENCE

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| <b>UX Research Intern</b>  | <b>Facebook Inc.</b>                                   | <b>Summer 2019</b> |
| • Gleaned research insights from statistical analysis and machine learning applied to large-scale datasets   |  |                    |
| • Designed and implemented a national survey of user needs   |  |                    |
| • Led an XFN brainstorm to generate research-based product recommendations for Facebook Stories  |  |                    |
| <b>Graduate Researcher</b>   | <b>Stanford AAA Learning and Behavior Lab</b>          | <b>2014 – 2020</b> |
| • Conducted experimental and longitudinal intervention studies to test instructional techniques in STEM domains  |  |                    |
| • Performed ethnographic fieldwork, observations, and interviews to investigate real-world learning environments   |  |                    |
| • Designed and implemented surveys to understand predictors of users' adoption of mobile technologies  |  |                    |
| • Ran user studies to inform interface and interaction design of web and mobile apps   |  |                    |
| <b>Research Assistant</b>  | <b>Stanford Cognitive and Systems Neuroscience Lab</b> | <b>2012 – 2014</b> |
| • Designed and implemented longitudinal behavioral and fMRI research protocols to research brain systems, math, and language learning in children with and without autism spectrum disorders |  |                    |
| <b>Undergraduate Researcher</b>  | <b>D'Esposito Cognitive Neuroscience Lab</b>           | <b>2009 – 2012</b> |
| • Created, populated, and managed the D'Esposito Gene Database with saliva samples, behavioral data, and fMRI imaging data from over 200 human subject participants                          |  |                    |
| <b>Undergraduate Researcher</b>  | <b>Knight Cognitive Neuroscience Lab</b>               | <b>2010 – 2011</b> |
| • Created 3D image reconstructions of ECoG electrode grids implanted on brains of epilepsy patients.   |  |                    |
| • Described by Principal Investigator as "the single most valuable undergraduate research assistant I have ever had in my laboratory over a 30-year period."                                 |  |                    |

## MENTORSHIP AND SERVICE

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| • Led two year-long PhD program area seminars, which provided research mentorship and professional development to 16 doctoral students. Served as the PhD program area student representative to facilitate collegiality and collaboration among faculty and doctoral students. | <b>2019-2020</b> |
|   | <b>2017-2018</b> |

## RECENT PUBLICATIONS & PRESENTATIONS

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|---|-------------|
| • How Breaking Down Distal Learning Goals Increases Clarity and Goal Commitment, Poster presented at the Annual Convention of the Association for Psychological Science, Washington, DC, 1 <sup>st</sup> author | <b>2019</b> |
| • Apps with Benefits: Using Benefits and Burdens to Predict Mobile App Usage, Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing, 1 <sup>st</sup> author                   | <b>2019</b> |
| • Perspectives on learning with multimodal technology, The Handbook of Multimodal-Multisensor Interfaces, 4 <sup>th</sup> author  | <b>2017</b> |
| • The half empty question for socio-cognitive interventions, Journal of Educational Psychology, 2 <sup>nd</sup> author  | <b>2016</b> |

## TECHNICAL EXPERIENCE

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- **Statistical methods:** clustering, factor analysis, LASSO regression, random forests, multivariate regression, t-tests
- **Languages & Technologies:** Python, C++, JavaScript, SQL, HTML/CSS, R, SPSS, Stata
- **Research methods:** Survey design, experimental design, exploratory data analysis, qualitative interviews, ethnographic observation, usability testing