

(Wen) Winnie Zhuang

Renée Crown Wellness Institute

• wzhuang@live.ca

• [linkedin.com/in/wwzhuang/](https://www.linkedin.com/in/wwzhuang/)

SUMMARY

- Psychological sciences researcher with 8+ years of experience conducting studies examining cognitive processes that affect human behaviors, thinking, and development at individual and group levels. First author of 2 peer-reviewed publications with 2+ more under-review.
 - Project lead and central contributor in cross-functional collaborations in academic, non-profit, and community settings. Mentored over 30 junior researchers and students on independent and group research projects.
 - Science communicator with a passion for designing creative outreach talks, workshops, and activities to empower general audiences with scientific knowledge and methodological tools to appreciate and apply scientific processes to their work and lives.
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EDUCATION

PhD in Developmental Psychology	June 2023	University of California Davis
M.A. in Experimental Psychology	May 2016	College of William and Mary
B.S. in Biopsychology	May 2014	Tufts University

RESEARCH AND WORK EXPERIENCE

Renée Crown Wellness Institute, University of Colorado Boulder **Boulder, CO**
Undergraduate Mentor and Psychological Sciences Researcher *Aug 2023 – present*
Supervisor: Dr. Leah Teeters

- Developing and leading the Undergraduate Research Fellows Program, a mentorship program for undergraduates interested in conducting research in Psychology and Neuroscience
- Research collaborator with the Mindful Campus Program

University of California Davis (transferred from University of Colorado Boulder) **Davis, CA**
Graduate Student Researcher, Cognition in Context Lab *Sept 2019 – June 2023*
Faculty Advisor: Dr. Yuko Munakata

- Designed 5 lab-based research studies to answer fundamental questions about human cognition and executive function development in children and adults (ages 5 – 18+)
- Led research teams consisting of faculty, graduate students, undergraduates, and community partners in all aspects of research design, data collection, analysis, and dissemination
- Developed new survey and behavioral tools to measure cognition and executive functions across ages
- Analyzed, interpreted, and reported findings from behavioral and survey-based data, resulting in 1 peer-reviewed publication, 2 national conference presentations, and 4 manuscripts under preparation
- Trained over 20 junior students on human subjects data collection, quantitative methods, and writing reports for research papers and presentations

American Institutes for Research **Remote**
Graduate Research Intern, Education Systems *June 2021 - Aug 2021*
Supervisor: Dr. Sarah Caverly

- Developed an intensive data collection survey to assess adolescents' developing sense of purpose in Jersey City Public Schools
- Proposed improvements to the organization, functionality, and user experience of the What Works Clearinghouse database
- Conducted scoping review on impacts of remote learning on educational outcomes for a NSF grant proposal; led to awarding of NSF grant #2200883 (PIs: Sarah Sahni and Laura Michaelson)
- Designed a general audience-friendly infographic on scoping reviews for the Methods of Synthesis and Integration Center (MOSAIC)'s resources webpage ([link here](#))

- Proposed technical tools to increase efficiency of manual data entry for a meta-analysis

University of Colorado Boulder

Boulder, CO

Graduate Student Researcher, Cognitive Development Center

Sept 2017 – Aug 2019

Faculty Advisor: Dr. Yuko Munakata

(transferred to UC Davis)

- Designed, led, and conducted data analyses for project examining relationships between context monitoring and inhibitory control in children (funded by NIH grant R01 HD078532)
- Co-designed and co-led team project exploring relationships between mindfulness and executive functions in 9-12-year-old children
- Designed and led project investigating children’s adaptation to information search costs across development (funded by NIH grant R01 HD086184)
- Co-designed and co-led team project investigating impact of research-outreach programming at the Children’s Museum of Denver (funded by Outreach Reward from CU Boulder Office for Outreach and Engagement)

Graduate Student Affiliate, Positive Emotion and Psychopathology Lab

Jan 2019 – Aug 2019

Faculty Advisor: Dr. June Gruber

- Designed survey items to explore international students’ adjustment in the EMERGE project (Examining Milestones in Emotion Regulation, Growth, & Education in First-Year College Students at CU Boulder)
- Networked with international student services and groups at CU Boulder to inform research focus

New York University

New York City, NY

Lab Manager, NYU Infant Cognition and Communication Lab

July 2016 – June 2017

Principal Investigator: Dr. Athena Vouloumanos

- Coordinated data collection for a longitudinal, multi-site study on early markers of autism with 3 labs, 14 research personnel, and over 150 families
- Trained and supervised 8 undergraduate students in research visits, presentations, and recruitment
- Identified recruitment opportunities and actively recruited over 30 new families to participate in studies
- Improved efficiency of pre-existing data coding protocol by condensing manual steps, reducing duplicates, and automating Excel tasks using VBA (code) and macros. Trained research assistants on new protocol and increased lab-wide productivity.
- Implemented new data handling practices to improve data security and accessibility for collaborators

College of William and Mary

Williamsburg, VA

Graduate Student, Forestell Eating Behavior Lab

Sept 2014 – May 2016

Faculty Advisor: Dr. Catherine Forestell

- Conducted literature reviews, designed and managed IRB and procedural protocols
- Organized all experimental materials and programmed stimuli using E-Prime and Python
- Trained and supervised undergraduate research assistants in data collection
- Managed and processed large datasets using Excel VBA and SPSS
- Performed mediation and moderation analyses using SPSS and prepared results for presentation
- Prepared weekly data reports to research advisor summarizing analytical decisions and findings

Research Assistant, Perception & Motor Development Lab

March – May 2016

Principal Investigator: Dr. Peter Vishton

- Collected data for experimental study investigating motor and visual perception in 3-9 year old children at local daycare centers and schools
- Engaged and interacted with young children to enable efficient data collection
- Contributed insights and ideas at lab meetings to develop studies

Tufts University

Medford, MA

Senior Honors Thesis, Nutrition and Behavior Lab & Neurocognition Lab

May 2013- May 2014

Faculty Advisors: Dr. Robin Kanarek, Dr. Marianna Eddy

- Conducted literature review to develop study design
- Created experimental tasks using specialized software and collected EEG data
- Processed and cleaned high density EEG data using specialized software and SPSS
- Performed statistical analyses on time-lapsed EEG data using SPSS
- Consolidated findings into Senior Honors Thesis paper and presentation

Human Nutrition Research Center on Aging

Boston, MA

Research Assistant, Energy Metabolism Lab

Jan – May 2013

Principal Investigators: Dr. Sai Das, Dr. Susan Roberts

- Prepared food samples for calorimetry
- Assisted in RMR procedures for study examining metabolic changes in older males
- Organized and compiled data for epidemiological surveys

Summer Research Assistant, Friedman School of Nutrition Science and Policy

June – Aug 2012

Principal Investigator: Dr. Fang Fang Zhang

- Performed literature reviews and summarized studies for meta-analysis of healthy living guidelines for cancer survivors
- Surveyed cancer survivors at survivor functions to collect data and generate interest in focus group participation

TEACHING EXPERIENCES

Undergraduate Research Fellows Program

Boulder, CO

Instructor, mentor

Aug 2023 – present

Denver Evaluation Network

Denver, CO

Instructor, Data Analysis Workshops

Sept 2018 – Aug 2019

Supervisor: Sarah Brenkert, Children’s Museum of Denver

- Designed and conducted basic data management workshop series for museum educators, empowering educators in the Denver Evaluation Network with tools to evaluate and achieve their unique programming goals
- Assessed the impact of research-outreach programs by designing and analyzing visitor feedback surveys
- Communicated research and cultivated enthusiasm for science through hands-on demos, TED-style talks, and other forms at community events

College of William and Mary

Williamsburg, VA

Graduate Teaching Assistant

Sept 2014 – May 2016

Courses: Family Therapy, Behavior Modification Lab, Elementary Statistics Lab

Course Professors: Dr. Pamela Hunt, Dr. Christy Porter, Dr. Michael Nichols

- Instructed students on statistical analyses methods using SPSS
- Developed class materials and lesson plans for Behavior Modification Lab
- Advised students one-on-one on behavioral self-modification projects and term papers
- Graded and critiqued weekly response papers and term papers

COMMUNICATION AND OUTREACH

Organizer, Psych Slam

Davis, CA

Faculty Supervisor: Brian Trainor

Feb 2022

- Competed in the University of California-wide 3-minute dissertation competition for graduate students

- Organized the first departmental 3-minute research talks event, the Psych Slam, to rally interest and support for science communication and creativity

Research Consultant, Family Hui

Davis, CA

Coordinator: Lucy Roberts

June 2020 - June 2021

- Initiated a research-community partnership with Family Hui, a non-profit parent support program
- Orchestrated strategic visioning with organization partners to identify important questions, design research protocol, and generate insights to meet organization's unique interests
- Implemented tools to prepare quantitative and qualitative feedback data for program evaluation
- Conducted a quantitative evaluation of the effectiveness the Family Hui curriculum; co-authored findings in a manuscript submitted to the *Journal of Child and Family Studies* for review

Research-Outreach Programming

Boulder, CO

CU Science Discovery, CU Natural History Museum, Boulder Public Library

Sept 2018 – Sept 2019

- Established research-outreach partnerships with community partners in the Boulder area (e.g. CU Natural History Museum, CU Science Discovery)
- Presented research talks and activities for lay-audiences at community events (e.g. Nerd Night, Meet a CU Scientist)
- Promoted science and research at family events in the Boulder community

RESEARCH PRESENTATIONS AND PUBLICATIONS

Munakata, Y., Placido, D., **Zhuang, W.** (2023). *What's Next? Advances and Challenges in Understanding How Environmental Predictability Shapes the Development of Cognitive Control*. *Current Directions in Psychological Science*.

Zhuang, W., Yonehiro, J., Roberts, L.M., Lopez, M., Munakata, Y. (2023). *It Takes a Hui: Evaluating Outcomes of a Peer-led Parenting Program, Family Hui Bloom curriculum*. *Journal of Child and Family Studies*.

Zhuang, W., Niebaum, J.C., & Munakata, Y., (2023). *Adapting exploration to time horizons across development*. *Developmental Psychology*.

In preparation

Zhuang, W., Munakata, Y., Dimidjian, S. (in prep). *The validity of the breath counting task as a measure of mindfulness for children ages 9 - 13 years*.

Zhuang, W., Michaelson, L.M., Munakata, Y., Dimidjian, S. (in prep). *Self-report measures of mindfulness for children: Convergent validity, predictive validity, and social desirability bias*.

White, J., Everhardt, K., **Zhuang, W.**, Munakata, Y. (under review). *Worth the wait? Contextual influences on delaying gratification during the COVID-19 pandemic*.

Poster presentations

Zhuang, W., Michaelson, L., Guild, R.M., Dostart, G., Dimidjian, S., & Munakata, Y., (2022, October). *Mindfulness and executive functions in children*. Poster presented at the Renee Crown Wellness Institute Grand Opening, Boulder, CO.

Zhuang, W., Friedman, N.P., & Munakata, Y., (2019, March). *Context monitoring and inhibitory control in 5-6-year-old children*. Poster presented at the Society for Research in Child Development Conference, Baltimore, MD.

Zhuang, W., (2016, May). *The Role of Impulsivity in Dietary Restraint and Counter-Regulation*. A Thesis presented to the Graduate Faculty of the College of William and Mary in Candidacy for the Degree of Master of Arts, Williamsburg, VA.

Zhuang, W., & Forestell, C.A., (2016, May). *Why do we overeat? The role of impulsivity in dietary restraint.* Poster presented at the Association for Psychological Science Annual Conference, Chicago, IL.

Zhuang, W., Schroeder, T.L., & Forestell, C.A., (2015, July). *Food odors and attentional bias for visual food cues.* Poster presented at the Society for the Study of Ingestive Behaviors Annual Conference, Denver, CO.

Zhuang, W., Hayes, J., Giles, G., Eddy, M., & Kanarek, R., (2014, August). *Dietary restraint modulates food image processing: an ERP study.* Poster presented at the Society for the Study of Ingestive Behaviors Annual Conference, Seattle, WA.

SCHOLARSHIPS AND PRIZES

Swiss Graduate School for Cognition, Learning, and Memory Summer School Grant (Summer 2019)- \$1000

CU Boulder Graduate School Travel Grant (Spring 2019)- \$300

CU Boulder UGGS Travel Grant (Fall 2018)- \$300

William and Mary A&S Graduate Research Grants (Fall and Spring 2015)- \$496

Thomas Harrison Carmichael and Emily Leonard Carmichael Scholarship (May 2014)- \$1500

PROFESSIONAL AFFILIATIONS

Association for Psychological Science, student member

Dec 2015 – Present

Society for the Study of Ingestive Behaviors, member

March 2015 – March 2016

SKILLS

Methodological Experimental and quasi-experimental design, primary data collection, secondary data analysis, survey design, participant feedback, program evaluation

Statistical Quantitative analysis (regression, mixed effects models, longitudinal data, exploratory data analysis, factor analysis), qualitative thematic coding and analysis, measurement development and validation

Communication Science outreach, research consulting, data workshops for non-academics

Software R, Python and PsychoPy, E-Prime, SPSS Statistics, Excel VBA, REDcap, Git and Github

Languages English, French, Chinese Mandarin, Chinese Cantonese

SERVICE AND OUTREACH

TRU Hospice

Companionship Volunteer

Boulder, CO

July 2018 - June 2019

- Provided biweekly companionship to seniors in hospice care

Grace Hospice

Companionship Volunteer

Williamsburg, VA

Oct 2015 – May 2016

- Provided biweekly companionship to seniors in hospice care

Balance Your Life, a wellness promotion group at Tufts University

Executive Board Member

Medford, MA

Spring 2011- Spring 2014

Advisors: Beth Farrow, Ian Wong

- Led weekly meetings with student members to brainstorm ideas and delegate tasks

- Represented student members at weekly meetings with Health Services faculty advisors
- Managed logistics of all events (e.g. cooking classes, health challenges, Girls Night at the Gym)
- Produced educational materials for school-wide distribution
- Networked with local organizations for event sponsorship and participation