

# DINA NAJI ARCH, MA

Phone: (909) 438-3851

dnaji@ucsb.edu

## EDUCATION

---

<b>University of California, Santa Barbara</b> Doctor of Philosophy, Education (Quantitative Research Methods)	<i>Fall 2019 - Present</i> Santa Barbara, CA
<b>California State University, Fullerton</b> Master of Arts, Experimental Psychology (Quantitative Psychology)	<i>May 2019</i> Fullerton, CA
<b>University of California, San Diego</b> Bachelor of Science, Psychology Minor: Business	<i>September 2014</i> La Jolla, CA

## AWARDS

---

APS Student Research Award, Honorable Mention	2019
Multivariate Software Award, WPA	2019
JoAnn Brannock Student Travel Award, CSUF	2018
Giles T. Brown Graduate Student Travel Award, CSUF	2018
Psychology Student Research Travel Award, CSUF	2018, 2019
Stats Wizard Certificate, Center for Research on Educational Access and Leadership	2018
Segal AmeriCorps Educational Award, Corporation for National & Community Service	2016

## PUBLICATIONS

---

- Arch, D. A. N.**, Nylund-Gibson, K., & Ing, M. (2020). *A moderation model using three-step specification*. (Manuscript in preparation)
- Nylund-Gibson, K., Garber, A. C., Carter, D. B., Simon, O., **Arch, D. A. N.**, Chan, M., Whaling, K., Lawrie, S. I., & Tartt, E. (2020). *Ten frequently asked questions about latent transition analysis (LTA)*. (Submitted).
- Chan, M. M., Sharkey, J., Lawrie, S. I., **Arch, D. A. N.**, & Nylund-Gibson, K. (2020). *K-6 Teacher well-being at the beginning of school closure during COVID-19: how can we support teachers?* (Submitted).
- Segal, N. L., **Arch, D. A. N.**, Preston, K. S. J., & Marelich, W. D. (2020). Social closeness revisited in monozygotic and dizygotic twin families: Aunt/uncle-niece/nephew relations. *Personality and Individual Differences*.
- Ignacio, D. A., Gerkins, D., Aguinaldo, E., **Arch, D.**, & Barajas, R (2019). Music-like stimuli affecting the emotional processing of words and facial expressions. *Psychology of Music*.

## POSTERS

---

- Naji, D. A.** & Preston, K. S. J. (2019, May). *A Longitudinal Study of Early Family Relationships and Later Success and Positive Psychological Status*. Association for Psychological Science. Washington, DC.
- Naji, D. A.** & Preston, K. S. J. (2019, April). *Mixture model differences in positive family relationships when dichotomizing continuous data*. Western Psychological Association. Pasadena, CA.
- Naji, D. A.**, Kuang, S., & Sy, S. (2018, October). *Learning disorders and social competence on academic achievement*. Society for Research in Child Development Conference on the Use of Secondary and Open Source Data in Developmental Science. Phoenix, AZ.
- Naji, D. A.** & Preston, K. S. J. (2018, May). *Exploring the components of psychological well-being and IQ Scores of men and women*. Association for Psychological Science. San Francisco, CA.
- Pizano, N. K., Preston, K. S. J., Park, J., **Naji, D. A.**, & Rodgers, D. M. (2018, May). *The longitudinal impact of maternal neuroticism on family cohesion: An autoregressive latent trajectory analysis*. Association for Psychological Science. San Francisco, CA.
- Naji, D. A.** & Leyva, C. (2018, April). *Assessing student experiences and retention for future careers in STEM education*. Student Creative Activities and Research Day at CSU Fullerton. Fullerton, CA.
- Ignacio, D. A., **Naji, D. A.**, Barajas, R., Aguinaldo, E., Kazemian, S., & Mendez, A. (2017, April). *Attenuating attention bias to threat with musical expectations*. Western Psychological Association. Sacramento, CA.

## ORAL PRESENTATIONS & SYMPOSIA

---

- Arch., D. A. N.** & Nylund-Gibson, K. (2020, May). *Auxiliary variable visualization in mixture models: A Shiny application*. Paper. Digital Research Symposium at the Gevirtz Graduate School of Education.
- Segal, N. L., **Naji, D. A.**, Preston, K. S. J., & Marelich, W. D. (2019, June). *Social Closeness Revisited in MZ and DZ Twin Families: Aunt/Uncle-Niece/Nephews Relations*. Paper. Behavior and Evolution Society conference. Boston, MA.
- Naji, D. A.** (2019, May). *Introduction to LaTeX*. Guest graduate student lecturer for Multivariate Statistics at California State University, Fullerton. Fullerton, CA.
- Naji, D. A.**, Preston, K. S. J., Gottfried, A. E., Gottfried, A. W., Pizano, N. K., & Rogers, D. M. (2019, April). *Gifted intelligence: Continuities from childhood through adulthood*. Roots of human development: Infancy to Middle Adulthood. Invited symposium. Western Psychological Association convention. Pasadena, CA.
- Naji, D. A.**, Segal, N. L., Preston, K. S. J., & Marelich, W. D. (2019, April). *Social closeness revisited in twin parents towards nieces and nephews: A structural equation model*. Paper. Western Psychological Association. Pasadena, CA.
- Naji, D. A.**, Preston, K. S. J., Pizano, N. K., Rodgers, D. M., & Ramos, M. C. *Successful Middle Adulthood Men & Women Identified as Gifted in Childhood*. Diverse Perspectives of Adult Success: A 38-Year Study. Symposium. Western Positive Psychology Association convention. Claremont, CA.

- Naji, D. A.,** Preston, K. S. J., Park, J., Manapat, P. D., Pizano, N. K., & Rogers, D. M. (2018, April). *Gifted adults on psychological well-being: Does gender matter?* Longitudinal Pathways to Success and Resilience: A 38-Year Study. Symposium. Western Psychological Association convention. Portland, OR.
- Naji, D. A.,** Preston, K. S. J. (2018, April). *Gifted adults on psychological well-being: Does gender matter?* Paper. Student Creative Activities and Research Day at California State University, Fullerton. Fullerton, CA.
- Naji, D. A.** (2018, April). *Introduction to Time Series using ARIMA models.* Paper presented as part of Multivariate Statistics course requirement at California State University, Fullerton. Fullerton, CA.
- Rogers, D. M., **Naji, D. A.,** & Pizano, N. K. (2018, March). *A brief introduction to structural equation modeling.* Talk presented to the Mathematics Club at CSU Fullerton. Fullerton, CA.
- Naji, D. A.,** & Pizano, N. K. (2018, February). *Gifted adults on psychological well-being: Does gender matter?* Presented at the CSU Student Research Competition at California State University, Fullerton. Fullerton, CA.
- Rodgers, D. M. & **Naji, D. A.** (2018, February). *Maternal relationships: The mother of resilience and success.* Presented at the CSU Student Research Competition at California State University, Fullerton. Fullerton, CA.
- Naji, D. A.,** Kazemian, S., & Ignacio, D. (2017, August). *Factors associated with slowed Huntington's Disease progression.* Talk presented at the Huntington's Disease Society of America Awareness Event. Santa Ana, CA.

## **RESEARCH EXPERIENCE**

---

### **University of California, Santa Barbara**

*September 2019 – Present*

Faculty Advisor: Karen Nyland-Gibson, PhD

- Create user-friendly data visualization tools for latent variable analyses
- Contribute to scale development by revising previously developed construct
- Examine high school student's attitudes toward STEM and the link with later college and career choices

### **California State University, Fullerton**

Fullerton, CA

*Graduate Research Assistant,*

*Apr. 2017 – May 2019*

Quantitative Psychology & Fullerton Longitudinal Study

Faculty Advisor: Kathleen Preston, PhD

- Running statistical analyses, including structural equation models, for various projects in R
- Examining giftedness/IQ scores and psychological well-being using the 38-year study
- Symposium on Roots of human development: Infancy to Middle Adulthood at WPA 2019

*Graduate Research Assistant, Developmental Psychology*

*May 2018 – Present*

Faculty Advisor: Nancy L. Segal, PhD

- Using structural equation modeling mediation methods to study social closeness by twin parents toward nieces and nephews
- Assisting in the preparation of a conference paper and manuscript for publication

*Graduate Research Assistant, Educational Psychology*

*Jan. 2017 – May 2018*

Faculty Advisor: Susan Sy, PhD

- Using Early Childhood Longitudinal Study, Kindergarten Class (ECLS-K) dataset to research learning disorders and social competence on academic achievement
- Poster to be presented at the Society for Research in Child Development conference

*Graduate Research Assistant,*

*Jan. 2017 – May 2018*

*Center for Research on Educational Access & Leadership*

Faculty Advisor: Dawn Person, PhD

- Project lead and data analyst/manager to program evaluations and assessments
- Dissertation data analyst consultant to Doctor of Education students
- Duties include: Institutional Review Board forms, data collection, quantitative and qualitative data analysis, report writing, lead and/or assist on interview panel for potential employees
- Provide professional development and leadership workshops on various topics, such as: APA formatting in Word, navigating SPSS, qualitative and quantitative analyses

*Graduate Research Assistant, Music & Processing of Facial Expressions* *Aug. 2016 – Aug. 2018*

Faculty Advisor: Daniel Ignacio, MS

- Studied the subconscious processing of music on the identification and recognition of affective facial expressions
- Assisting in designing experimental procedure and coding of computer program to collect data using a pre-validated facial stimulus set
- Assisted in the preparation and submission of a manuscript for publication

## **University of California, Irvine**

Irvine, CA

*Research Assistant Specialist, Brain Programming in*

*2014 – 2015*

*Adolescent Vulnerabilities*

Principal Investigator: Steven Small, MD, PhD

- Served as a liaison between two projects that investigate the developmental mechanisms contributing to adolescent resilience or vulnerabilities to mental illnesses
- Conducted interviews and administered standardized tests, such as the WAIS and WISC
- Collected medical and physiological data from participants, such as saliva and blood pressure
- Scheduled and ran functional Magnetic Resonance Imaging (fMRI) scans for participants and assisted in preprocessing of data

## **University of California, San Diego**

Jolla, CA

*Undergraduate Research Assistant, Positive Emotion & Anxiety*

*2013 – 2014*

Faculty Advisor: Charles Taylor, PhD

- Assisted team in participant recruitment, screening, and scheduling
- Ran participants through experimental protocols, including consent and debriefing procedures, administered surveys, computer- based tasks, and behavioral assessments
- Assisted with fMRIs of participants by getting equipment set up and running participants through protocols

*Data Entry Assistant, Rady Children's Hospital*

*2013 – 2014*

Faculty Advisor: Jeffrey Max, MD

- Assisted with the neuropsychiatric study of pediatric mild traumatic brain injuries
- Entered clinical data in English and Spanish using Redcap with precision and accuracy

- Administered neuropsychiatric testing to participants, such as the WASI and WRAT
- Assisted with fMRI preparation of participants

## TEACHING & ADVISING EXPERIENCE

---

### University of California, Santa Barbara

*Graduate Teaching Assistant, Statistics in Psychology*

Goleta, CA

*Fall 2019*

### California State University, Fullerton

*Graduate Statistics Advisor, Department of Psychology*

*Graduate Teaching Assistant, Multivariate Statistics in Psychology*

*Graduate Teaching Assistant, Advanced Statistics in Psychology*

*Graduate Teaching Assistant, Elementary Statistics in Psychology*

Fullerton, CA

*Fall 2017 – May 2019*

*Spring 2019*

*Spring 2017 – Spring 2019*

*Summer 2017 – Spring 2019*

## ACADEMIC AFFILIATIONS & MEMBERSHIPS

---

*Student Member, American Educational Research Association*

*Student Member, Society for Research in Child Development*

*Student Affiliate Member, Association for Psychological Science*

*Student Affiliate Member, Western Psychological Association*

## COMMUNITY SERVICE & VOLUNTEER WORK

---

### CSU Fullerton Psychology Day

*Graduate Student Panelist*

Fullerton, CA

*2019*

- Answered questions on applying to master and doctoral programs and experiences during grad school

### Asian Americans Advancing Justice

*Student Research Assistant*

Los Angeles, CA

*Fall 2017*

- Provided statistical support for a non-profit legal aid and civil rights organization as part of a service-learning class project
- Analyzed four quarters of client intake information of the 2016 year to provide outreach effort recommendations

### CSU Fullerton College of Education, Research Symposium

*Staff Volunteer*

Fullerton, CA

*2017*

- Assisted with coordinating research symposium for P-12 and community college issues and implications for leadership, diversity, and access
- Set up hall and organized student research posters the day of the event

### Cross Cultural Expressions, Department of Mental Health

*Staff Volunteer*

Los Angeles, CA

*2017*

- Coordinated with universities in Los Angeles county to present on mental health awareness, specifically for Arabic speaking students
- Discussed topics such as mental illness, barriers to mental health care, stigma, and the impact on the Arab community

**Access California Services**

Anaheim, CA

*AmeriCorps Member, Corporation for National & Community Service*

2015 – 2016

- Provided a year of service to a non-profit agency that specialized in assisting refugees and immigrants
- Searched for employment opportunities for clients and referring qualified candidates to employers, while preparing résumés, cover letters, and job applications
- Held weekly workshops that provided helpful information on different aspects of employment, e.g., résumé building, job shadowing, mock interviews
- Provided Arabic translations to clients when necessary

*Administrative Assistant, Department of Counseling*

2015 – 2016

- Maintained front desk once a week to the department that specializes in providing counseling and support services to immigrants and refugees
- Maintained confidentiality of clients under HIPAA for the County of Orange
- Making appointments and processing all payment transactions for clients on a sliding scale
- Providing Arabic translations to client

**LANGUAGES**

---

**English:** Native Language**Arabic:** Intermediate Listener and Speaker, Novice Reading and Writing**Spanish:** Novice Listener and Speaker, Advanced Reading and Writing**SOFTWARE EXPERTISE**

---

**Languages:** R, LaTeX, C#**Programs:** R, Mplus, EQS, Mplus Automation, SPSS, CEFA, Visual Studio, SONA Systems, Qualtrics, Dedoose, GoogleForms, Microsoft Office