

# Jonathan Park

M.A. IN EXPERIMENTAL PSYCHOLOGY · B.A. IN PSYCHOLOGY

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## Education

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### Master of Arts in Experimental Psychology; Quantitative Psychology

Fullerton, CA

CALIFORNIA STATE UNIVERSITY, FULLERTON

August. 2015 - May. 2017

Thesis: A longitudinal application of cross-informant linking  
Committee: Kathleen Preston, Jessica Tessler, Michelle Ramos

### Bachelor of Arts in Psychology

Fullerton, CA

CALIFORNIA STATE UNIVERSITY, FULLERTON

August. 2011 - May. 2015

Cumulative GPA - 3.54; Major GPA 3.75

## Honors & Awards

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### SCHOLARSHIPS & GRANTS

- Aug. 2018 **Recipient**, Hintz Graduate Educational Enhancement Fellowship
- May. 2017 **Sole Recipient**, Wilson and Mildred Kee Memorial Scholarship
- Spring. 2016 **Recipient**, JoAnn Brannock Student Travel Award
- Spring. 2016 **Recipient**, Psychology Department Student Research Travel Award

### UNIVERSITY HONORS

- 2013 - 2015 **Recipient**, Consecutive Dean's List Awards
- May. 2015 **Graduate with Distinction**, *Cum Laude*

### DEPARTMENTAL HONORS

- May. 2017 **Sole Recipient**, Outstanding Master of Arts Student
- Spring 2014 **Inducted**, Psi Chi - International Honors Society

## Current Projects

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- Park, J.**, Pizano, N.K.,<sup>†</sup> & Preston, K.S.J. (2017). *To  $\theta$  or not to  $\theta$ : A simulation study on the validity of IRT.* For submission to the 2018 *International Meeting of the Psychometric Society*. New York, NY.
- Park, J.**, & Preston, K.S.J. (2017). *Identifying the optimal conditions for test equating in Item Response Theory.* For submission to the 2018 *International Meeting of the Psychometric Society*. New York, NY.
- Park, J.**, & Preston, K.S.J. (2017). *Agreement: Shared perceptions of positive family relationships and life satisfaction in adulthood.* For submission to the 2018 meeting of the *Western Psychological Association*. Portland, OR.
- Park, J.**, Pizano, N.K.,<sup>†</sup> & Preston, K.S.J. (2017). *A dynamic assessment of the family: Dynamical correlation and family relationships.* One-Speaker Talk at the 2018 meeting of the *Western Psychological Association*. Portland, OR.
- Naji, D.,<sup>†</sup> **Park, J.**, & Preston, K.S.J. (2017). *How to deal with neutrality: Intentional applications of NMAR data in IRT.* For submission to the 2018 *International Meeting of the Psychometric Society*. New York, NY.
- Park, J.**, Pizano, N.K.,<sup>†</sup> & Preston, K.S.J. (2017). *Conflict throughout development: A longitudinal exploration.* For submission to the 2018 meeting of the *Association for Psychological Science*. San Francisco, CA.
- Park, J.**, Trevitt, J., & Tessler, J., (2017). *The predictive capabilities of missingness in a fibromyalgia sample.*

## Publications & Manuscripts

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- Preston, K. S. J., Gottfried, A. W. **Park, J.**, Manapat, P. D., Gottfried, A. E., & Oliver, P. H. (2017). Simultaneous linking of cross-informant and longitudinal positive family relationships. *Educational and Psychological Measurement*.
- Park, J.**, & Trevitt, J. C., (*In review*). A meta-analytic review of the comparative benefits and side effects of milnacipran and duloxetine in the treatment of fibromyalgia. *Journal of Pain*.
- Park, J.**, Pizano, K.<sup>†</sup>, & Preston, K. S. J., (*In prep*). *On the external validity of IRT: An application of an automated selection algorithm.* For submission in *Applied Psychological Measurement*.
- Park, J.**, Lukaszewski, A., & Preston, K. S. J., (*In prep*). *Optimization of the Big Five Inventory under Item Response Theory.* For submission in *Educational and Psychological Measurement*.

<sup>†</sup> Indicates author was advised student

## Invited Talks & Symposia

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- Preston K. S. J., **Park, J.\***, Manapat, P. D., Pizano, N. K., Rogers, D. M., & Naji, D. A. (2018, April). *Longitudinal pathways to success and resilience: A 38-year study*. Symposium presented at the Western Psychological Association. Portland, OR.
- Manapat, P. D., Preston, K. S. J., & **Park, J.**, (2017, April). *A multilevel SEM analysis of positive family relations and future life satisfaction*. Paper presented at the Western Psychological Association. Sacramento, CA.
- Park, J.**, Preston, K. S. J., Tessler, J. L., & Ramos, M. C. (2017, April). *A novel method for assessing dynamic systems: A cross-informant, longitudinal test-linking approach*. Paper presented at the Society for Research in Child Development Biennial Meeting. Austin, TX.
- Preston, K. S. J., Gottfried, W. A., Gottfried, E. A., Oliver, P. H., Guerin, D., **Park, J.**, Manapat, P. D., Pizano, N. & Bailey, A. N., (2016, April). *Perspectives of the family: Who knows best?* President's Symposium presented at the Western Psychological Association. Long Beach, CA.
- Park, J.**, Manapat, P. D., & Baker, M. (2016, April). *Succeeding in graduate school*. Invited talk for California State University's Psi Chi Chapter at the annual Humanities and Social Sciences Week. Fullerton, CA.
- Manapat, P. D., **Park, J.**, Pizano, N., & Bailey, A. (2016, February). *Transactional perspectives between parent and child across developmental epochs*. Talk presented at the CSU Student Research Competition at California State University, Fullerton. Fullerton, CA.
- Park, J.**, Manapat, P. D., Esquibel, M., & Martinez, A. (2015, November). *Getting into graduate school*. Talk presented at Graduate Student Panel in California State University, Fullerton. Fullerton, CA.
- Park, J.** (2015, November). *Introduction to hierarchical regression*. Guest lecture presented at the meeting of the Psychology Peer Mentors at California State University, Fullerton, Fullerton, CA.

\* Indicates Discussant Role

## Posters

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- Park, J.**, Preston, K. S. J., Gottfried, A. W., Gottfried, A. E., Guerin, D., Oliver, P. O., Bailey, A., Manapat, P. D., & Pizano, N. (2016, August). *Longitudinal application of cross-informant linking utilizing the nominal response model*. Poster presented at the American Psychological Association. Denver, CO.
- Manapat, P. D., Preston, K. S. J., Gottfried, A. E., Oliver, P. H., Gottfried, A. W., **Park, J.**, Pizano, N. K., & Bailey, A. (2016, August). *Transactional perspectives between parent and child across developmental epochs*. Poster presented at the American Psychological Association Conference. Denver, CO.
- Manapat, P. D., Preston, K. S. J., Oliver, P. H., Gottfried, A. W., Gottfried, A. E., **Park, J.**, Bailey, A., & Pizano, N. K. (2016, August). *Longitudinal trends of parent-child perspectives of the family*. Poster presented at the American Psychological Association Conference. Denver, CO.
- Park, J.**, Preston, K. S. J., Manapat, P. D., Sambrano, D., & Pizano, N. (2016, May). *Consequences of Negatively Worded Items on the Predictive capabilities of the NEO-PI-3 using the nominal response model*. Poster presented at the Association for Psychological Science. Chicago, IL.
- Pizano, N. K., Preston, K. S. J., Manapat, P. D., **Park, J.**, Sambrano, D., & Bailey, A., (2016, May). *The longitudinal comparison of mother and child perspectives of positive and family relationships relating to later life satisfaction and leadership*. Poster presented at the 2016 Association for Psychological Science. Chicago, IL.
- Park, J.**, Preston, K. S. J., Manapat, P. D., Sambrano, D., & Pizano, N. (2016, April) *Identifying consequences of negatively worded items with the nominal response model*. Poster presented at the Western Psychological Association. Long Beach, CA.
- Bailey, A. N., Preston, K. S. J., Oliver, P. H., & **Park, J.** (2016, May). *Adolescents' coping strategies in conflictual home environments across time*. Poster presented at the Western Psychological Association annual conference. Long Beach, CA.
- Manapat, P. D., Preston, K. S. J., **Park, J.**, & Sambrano, D. (2016, April). *Evaluating the supplemented EM algorithm under the nominal response model*. Poster presented at the Western Psychological Association Conference. Long Beach, CA.
- Pizano, N. K., Preston, K. S. J., Manapat, P. D., **Park, J.**, & Sambrano, D. (2016, April). *Early childhood socialization predicts mothers' perception of family relationship*. Poster presented at the 2015 Western Psychological Association Conference. Long Beach, CA.
- Sambrano, D., Preston, K. S. J., **Park, J.**, Manapat, P. D., & Pizano, N. (2016, May). *Decreasing participants' cognitive load while taking surveys under IRT*. Poster presentation at the Western Psychology Association Conference. Long Beach, CA.
- Sambrano, D., Preston, K. S. J., **Park, J.**, Manapat, P. D., & Pizano, N. (2016, April). *Emotion regulation and well-being: A structural equation model*. Poster presentation at the Western Psychology Association Conference. Long Beach, CA.

- Park, J., Orozco, E., & Trevitt, J.** (2016, April) *A meta-analytic comparison of milnacipran and duloxetine in fibromyalgia patients*. Poster presented at the Western Psychological Association. Long Beach, CA.
- Wagner, S., Martinez, A., & **Park, J.** (2015, May). *Conditioned place preference induced by Valeriana Officinalis*. Poster presented at the Annual Western Psychological Association Conference, Las Vegas, NV.
- Durkee, P., Romero, G. A., **Park, J.**, & Goetz, A. T. (2015, April). *Spontaneous assessments of formidability by men*. Poster presented at the Annual Student Creative Activities and Research Day. Fullerton, CA.
- Durkee, P., Romero, G. A., **Park, J.**, & Goetz, A. T. (2014, November). *Spontaneous assessments of formidability by men*. Poster presented at the 22nd Annual Southern California Conference for Undergraduate Research, Fullerton, CA.

## Research Experience

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### California State University, Fullerton

Fullerton, CA

#### FACULTY RESEARCHER - QUANTITATIVE ANALYSIS - FIBROMYALGIA AND CHRONIC PAIN CENTER

August. 2017 - Present

- Optimize survey-based data on cognitive health using Item Response Theory (IRT)
- Conduct pattern mixture models to assess for trends in missing data in an 8-year, longitudinal dataset detailing the health of patients with fibromyalgia
- Advise graduate and undergraduate students in analyzing, gathering, and interpreting data pertaining to health and well-being in a chronically ill population

#### STATISTICAL ASSISTANT - JENNIFER TREVITT, PHD

January. 2017 - Present

- Conduct longitudinal analyses on data collected by the Fibromyalgia and Chronic Pain center (FMCP)
- Conduct latent class analyses to identify sub-groups of patients to better characterize the distinct sub-populations that may exist within fibromyalgia sufferers
- Run a pattern mixture model to understand whether patterns of missingness are related to/predict attrition and symptom severity in Fibromyalgic patients
- Publish a manuscript on the efficacy and deleterious effects of milnacipran and duloxetine

#### GRADUATE RESEARCH ASSISTANT - QUANTITATIVE PSYCHOLOGY LAB - KATHLEEN PRESTON, PHD

August. 2015 - Present

- Apply the Nominal Response Model (NRM) in the assessment of negatively worded items in the NEO-PI-R
- Establish a method for equating the scores of multiple informants across longitudinal time spans using inequivalent groups test equating procedures from Item Response Theory (IRT)
- Create a simulation to assess for optimal proportions of common items needed to facilitate accurate test equating
- Write R-code for simulating external validity of various IRT methods against classically derived methods (i.e., Summed-scores, factor scores, etc.)
- Conduct a simulation on dealing with neutrality under low-endorsement paradigms

#### GRADUATE RESEARCH ASSISTANT - FULLERTON LONGITUDINAL STUDY (FLS) - ALLEN GOTTFRIED, PHD

August. 2015 - Present

- Web Master for the Fullerton Longitudinal Study Website. Designed, coded, and set up domain and webpage
- Conduct a Growth Mixture Model on the trajectories of mother- and child- perspectives of family relationships
- Taught graduate and undergraduate research assistants how to appropriately run models in EQS and flexMIRT

#### GRADUATE RESEARCH ASSISTANT - FIBROMYALGIA AND CHRONIC PAIN CENTER (FMCP)

August. 2014 - Present

- Created a database containing all medical information for the FMCP (Years 2008 - 2014) for use in future studies on the interactions between medications and symptom severity
- Conduct a Latent Class Analysis for identifying common patterns of symptomatology amongst fibromyalgic patients
- Conduct a Pattern Mixture Model to identify meaningful missingness in a sample of fibromyalgic patients

#### RESEARCH ASSISTANT - EVOLUTIONARY PSYCHOLOGY LAB - AARON GOETZ, PHD

August. 2014 - May 2016

- Conducted a simulation study to test the effects of inaccuracy in recollection of dates on fertility calculators
- Created a spreadsheet designed to automatically track ovulatory cycles and provide researchers with a general approximation of times of maximum fertility
- Assisted in a study pertaining to coercive behaviors as a function of opportunistic environmental cues in men and women. Responsible for writing the methods and results sections of the manuscript
- Resident statistical advisor to other research assistants in the lab

#### RESEARCH ASSISTANT - PSYCHOPHARMACOLOGY LAB

August. 2014 - January 2016

- Injected rat subjects with valerian extract
- Resident statistical advisor to other research assistants in the lab

## Teaching Experience

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### California State University, Fullerton

LECTURER - LABORATORY IN LEARNING AND MEMORY

Fullerton, CA

October. 2017 - Present

LECTURER - LABORATORY IN COGNITIVE PSYCHOLOGY

August. 2017 - Present

### California State University, Fullerton - Statistics Courses

Fullerton, CA

GRADUATE ASSISTANT - RESEARCH METHODS IN PSYCHOLOGY - DANIEL IGNACIO, MA

August. 2016 - December. 2016

GRADUATE ASSISTANT - MULTIVARIATE STATISTICS - KATHLEEN PRESTON, PHD

January. 2016 - May. 2016

GRADUATE ASSISTANT - INTRODUCTORY STATISTICS - ANGELA-MINH TU NGUYEN, PHD

January. 2016 - May. 2016

GRADUATE ASSISTANT - INTERMEDIATE STATISTICS AND RESEARCH METHODS - JESSICA TESSLER, PHD

August. 2015 - December. 2015

UNDERGRADUATE TEACHING ASSISTANT - ADVANCED STATISTICS - MICHAEL WARREN, PHD

August. 2014 - May. 2015

### California State University, Fullerton - Misc. Courses

Fullerton, CA

LECTURER - LABORATORY IN COGNITIVE PSYCHOLOGY

August. 2017 - Present

GRADUATE ASSISTANT - COGNITIVE PSYCHOLOGY - DANIELLE PEARSON, PHD

January. 2017 - May. 2017

GRADUATE ASSISTANT - LEARNING AND MEMORY - KAYLA CAUSEY, PHD

January. 2017 - May. 2017

GRADUATE ASSISTANT - LEARNING AND MEMORY - BRIANNE LEVINNE, MA

January. 2017 - May. 2017

GRADUATE ASSISTANT - COMPARATIVE ANIMAL BEHAVIOR - KAYLA CAUSEY, PHD

August. 2016 - December. 2016

UNDERGRADUATE TEACHING ASSISTANT - COGNITIVE PSYCHOLOGY - NATHAN WESTBROOK, ABD

January. 2014 - May. 2014

### California State University, Fullerton - Mentorships

Fullerton, CA

GRADUATE ADVISOR - PSYCHOLOGY PEER MENTORS - KRISTIN BEALS, PHD

August. 2015 - January. 2015

PSYCHOLOGY PEER MENTOR - KRISTIN BEALS, PHD

January. 2014 - May. 2015

## Software Expertise

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### LANGUAGES

R,  $\LaTeX$ , HTML, CSS, Javascript, and working knowledge of Python

### PROGRAMS & PACKAGES

Mplus, EQS, lavaan, FlexMIRT, EQSIRT, CEFA, SPSS, MedCALC, SONA Systems, Qualtrics, GoogleForms, Microsoft Office, Photoshop, and Lightroom

## Relevant Coursework

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### STATISTICS

Psyc-461 - Psychological Testing

Psyc-465 - Advanced Statistics

Psyc-466 - Advanced Computer Applications in Psychology

Psyc-467 - Multivariate Statistics

Psyc-515 - Meta Analysis

Psyc-516 - Structural Equation Modeling

Psyc-520 - Survey of Psychometrics

## Relevant Work Experience

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### Cal. State Fullerton: Office of Assessment and Educational Effectiveness

Fullerton, CA

DATA ANALYST - SU SWARAT, PHD

May. 2017 - August. 2017

- Analyze institution-level data for the purposes of drawing inferences on student performance and academic attainment

SONA SYSTEMS ADMINISTRATOR - DAVID GERKENS, PHD

August. 2016 - May. 2017

- Grant student researchers access to CSUF's student participant pool pending approval from the IRB
- Provide feedback and review research proposals for posting on the research pool site
- Assist participants and researchers in clarifying requirements for course credit hours

## Organizations & Affiliations

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Fall 2016 - Present **Member**, Society for Research in Child Development

Fall 2015 - Present **Member**, Association for Psychological Science

Fall 2015 - Present **Member**, American Psychological Association

Fall 2015 - Present **Member**, Western Psychological Association

Aug. 2014 - May. 2015 **President**, Psychology Department Student Association

Jan. 2015 - May. 2015 **President**, Society for Interdisciplinary Research in Evolution

Jan. 2014 - Aug. 2014 **Vice-President**, Psychology Department Student Association  
Jan. 2014 - Jan. 2015 **Vice-President**, Society for Interdisciplinary Research in Evolution  
Aug. 2013 - Jan. 2014 **InterClub Council Representative**, Psychology Department Student Association  
Jan. 2014 **Founder**, Society for Interdisciplinary Research in Evolution  
Spring 2014 **Inductee/Member**, Psi Chi - International Honors Society