

## **Danny Wang M.S.**

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## **Education**

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### **The Pennsylvania State University (Penn State)**

*Doctoral Student in Biobehavioral Health (2022 – Current)*

- 2022 – 2023 Graham Fellowship Award
- 2022 – 2023 Fund for Excellence in Graduate Recruitment

### **University of Texas at San Antonio**

*Master of Science in Experimental Psychology (2015 – 2017)*

- Relevant Coursework: Experimental Design, Psychometrics, Inferential Statistics, Regression and Correlation.
- 2016 Spring Research Conference (\$200 awarded for 3<sup>rd</sup> place presentation).
- Successfully defended master's thesis with distinction (Extraversion mediates the effects of early childhood trauma on the cortisol awakening response).

*Bachelor of Arts in Psychology (2009 – 2014)*

- Relevant Coursework: Statistics for social sciences, experimental psychology, physiological psychology, abnormal psychology, personality psychology.

## **Supplemental Training**

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### **University of Michigan**

*Inter-university Consortium for Political and Social Research (ICPSR; 2021)*

- Relevant Coursework: Bayesian Statistics, Structural Equation Modeling, Latent Class/latent Profile, and Latent Transition Analysis, Longitudinal Data Analysis.

## **Professional and Research Experience**

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### **University of Alabama at Birmingham (2019 – Current)**

*Data Analyst/Statistician for the Department of Acute, Chronic and Continuing Care (Pickering Caregiver Lab)*

- Managed a dynamic database with a rolling enrollment process.
- Utilized R to wrangle, clean, and merge various datasets for analysis.
- Wrote custom R code for various data processes.
- Utilized varying multilevel techniques for statistical modeling (generalized linear, mixed-effects, dynamic structural equation modeling).
- Programming surveys on REDCap and Qualtrics for data collection.
- Analyses were predominantly used to model intensive longitudinal data examining elder neglect and abuse in dementia patients.
- Presented analyses/results to project collaborators on a weekly basis.
- Consulted with faculty and students in the school of nursing for various projects.

### **UT Health San Antonio (2018 – 2020)**

*Data Analyst/Statistician for the UT Health San Antonio School of Nursing (Pickering Caregiver Lab; 2019-2020)*

*Data Analyst/project Coordinator for the UT Health San Antonio School of Nursing (Lisa Cleveland Lab; 2018-2019)*

- Managed database for multiple federally funded opioid related projects.
- Coordinated trainings and distribution of opioid reversal medication to first responders and community members across Texas.
- Analyzed cortisol data (repeated measures, AUC, delta change) in opioid exposed women during pregnancy; second phase included examining cortisol responses in opioid exposed infants.
- Conducted extensive literature reviews for protocol development.
- Prepared and submitted reports to the state quarterly and biannually for program evaluation.

### **University of Texas at San Antonio (2013- 2018)**

#### *Lecturer (2017- 2018)*

- Lectured in a large auditorium style setting (90 students) on integrated theories related to abnormal psychology.
- Instructed smaller lab classes (25-30 students) on psychological experimental designs, basic statistics, and scientific/technical writing.
- Maintained correspondence with students daily through both in class communication and by email.

#### *Graduate Research Assistant (2016 – 2018)*

- Collected data for a bio-behavioral study examining the cortisol awakening response in women with early childhood trauma.
- Performed data entry, cleaning, and analysis.
- Compiled comprehensive literature review to address study parameters and gaps.
- Ran participants through the different phases of the study including communication and payment.
- Scheduled weekly meetings with the principal investigator and other research assistants, detailing the progression of the study.
- Managed undergraduate research assistants.

#### *Graduate Teachers Assistant (2015 – 2017)*

- Assisted faculty with grading and proctoring exams in varying classes.
- Held office hours for students.

#### *Undergraduate Research Assistant (2013 – 2015)*

- Consented and ran participants through various phases of the study.
- Performed phlebotomy for data collection.
- Organizing and scheduling participants for studies.
- Data entry.

### **Areas of Expertise**

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- **Advance Statistics:** Multilevel design (mixed effects), Latent modeling (CFA, SEM, LCA, etc.), timeseries (lagged models, DSEM), Bayesian analysis, generalized linear modeling (binomial/count data), intensive longitudinal design.
- **Data Science:** Cleaning, wrangling, visualization, modeling, interpretation.
- **Social and behavioral research:** Experimental design, cortisol, stress response, acculturation/biculturalization.
- **Data Collection Software:** REDCap, Qualtrics, ilumivu/mEMA.
- **Statistical Software packages:** R, SPSS, Mplus, Excel.

### **Publications (In Press)**

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Pickering, C., Maxwell, C., Yefimova, M., **Wang, D.**, Puga, F., Sullivan, T., (2022) Early Stages of COVID-19 Pandemic Had No Discernable Impact on Risk of Elder Abuse and Neglect Among Dementia Family Caregivers: A Daily Diary Study. *Journal of Family Violence*. doi:10.1007/s10896-022-00392-8

Kim, H., Son J., Lee D., Tsai j., **Wang, D.**, Chocron, E., Jeong, S., Kittrell, P., Murchison, C., Kennedy, R., Tobon, A., Jackson, C., Pickering, A. (2022) Gut and Oral Dysbiosis Differentially Impact Spinal and Bulbar Onset ALS, Predicting ALS Severity and Potentially Determining the Location of Disease Onset. *BMC Neurology*.

Pickering, C., Yefimova, M., **Wang, D.**, Maxwell, C., Jablonski, R. (2022) Dynamic Structural Equation Testing of the Progressively Lowered Stress Threshold Model as an Explanation for Behavioral Symptoms of Dementia. *Journal of Advance Nursing*.

Grant, J., Graven, L., **Wang, D.**, Luttic, M., and Azuero, A., (2022) The Subjective Component of the Dutch Objective Burden Inventory: A Psychometric Analysis. *The Journal of Cardiovascular Nursing*.

Pickering, C., Puga, F., **Wang, D.**, Yefimova, M. (2020). The Half Life of Stress: Caregiver Stress Increases Next-Day Severity of Behavioral Symptoms of Dementia. *Innovation in Aging*. 4. 253-254.

Puga, F., **Wang, D.**, Pickering, C. (2020). Suicidal Ideation in Dementia Family Caregivers. *Innovation in Aging*. 4. 477-477.

Puga, F., **Wang, D.**, Pickering, C. (2020). Daily stressful experiences, depressive symptoms, and behavioral responses of ADRD family caregivers: Dementia care research (research projects; nonpharmacological)/Family/lay caregiving. *Alzheimer's & Dementia*. doi:16. 10.1002/alz.044050.

### **Publications (In Review)**

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Puga, F., **Wang, D.**, Rafford, M., Poe, A., Pickering, C., The Relationship Between Daily Stressors, Social Support, Depression and Anxiety Among Dementia Family Caregivers: A Micro-Longitudinal Study.

Yefimova, M., **Wang, D.**, Maxwell, C., Sullivan, T., Puga, F., Pickering, C. Potentially Inappropriate Administration of Medications as Chemical Restraint among Dementia Family Caregivers.

### **Conference Presentations**

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McGlothen-Bell, K., Recto, P., McGrath, J., Brownell, E., Bibriescas, N., **Wang, D.**, Cleveland, L. (2019). *The impact of opioids on maternal-infant interaction, stress response, and attunement*. Presented at the Behavior, Biology, and Chemistry: Translational Research in Addiction Conference.

Scott, L., Emmerich, A., **Wang, D.**, Bibriescas, N., Levos, T., Cleveland, L. (2019). *Link to recovery: Follow-up for opioid overdose survivors*. Presented at the Behavior, Biology, and Chemistry: Translational Research in Addiction Conference.

**Wang, D.**, Emmerich, A., Bibriescas, N., Scott, L., Cleveland, L. (2019). *Preparing first responders to reduce opioid overdose deaths in Texas*. Presented at the Behavior, Biology, and Chemistry: Translational Research in Addiction Conference.

**Wang, D.**, Walker, K., Mangold, D. *Gender and Acculturation on the Cortisol Awakening Response in Mexican-Americans*. Presented at 2016 COLFA Spring Research Conference UTSA (Third place)

Walker, K., **Wang, D.**, Mangold, D. *Depression and Childhood Trauma on Somatization in Mexican Americans*. Presented at 2016 Psychology Student Research Conference UTSA.

**Wang, D., Mangold, D.** *Depressive Symptomatology Mediates the Relationship Between Discrimination and Somatization in Mexican Americans.* Presented at Southwestern Psychological Association Conference 2017.

## References

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