

Dominique Davis

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Skills

Research Design
Pandas

Python
SPSS

SQL
Data Analysis

AWS
Matplotlib

Experience

Valorem, Seattle, WA

Data Scientist, 05/2018-01/2019

Developed recommendation engine using AzureML and SQL for sales collateral. Advised UX designers on visualizing client data in PowerBI. Developed recommendation engine to increase workshop sales.

DimensionalMechanics, Bellevue, WA

Applied Research Scientist, 08/2015-04/2018

Led custom training on data curation and machine learning for Fortune 500 clients. Developed classification model to significantly reduce IT support request times. Trained classification model to categorize tumors for leading university. Collaborated with executive leaders to identify solutions for client use cases. Developed news source detection model to improve media client factuality. Pre-processed unstructured, quantitative data using Python and Pandas. Evaluated models using metrics including accuracy, RMSE, and MAE. Principal researcher on visual attention study using eye-tracking and biometrics.

University of California, Riverside, Riverside, CA

Graduate Student Researcher, 07/2013-06/2015

Taught courses on multisensory perception and cognitive processes. Developed auditory training program to aid rehabilitation of veterans. Designed audiovisual speech perception experiments using MATLAB. Performed HLM and PCA to discover speech patterns among talkers. Presented research findings at leading vision and auditory conferences.

University of Illinois at Urbana-Champaign, Champaign, IL

Coordinator of Research Programs, 06/2011-06/2013

Programmed eye-tracking and behavioral experiments using MATLAB and Praat. Hired, managed, and trained research assistants for psycholinguistics studies.

Education

M.A. Cognitive Psychology, 2015, University of California, Riverside, Riverside, CA.

Select Publications

Simmons, D.C., Dias, J.W., Dorsi, J., Rosenblum, L.D. (2015). Cross-modal transfer of talker learning. *The Journal of Acoustical Society of America*, 137(4), 2416-2416.

2015 Watson, D.G., Buxo-Lugo, A., Simmons, D.C (2015). The effect phonological encoding on word duration: Selection takes time. *Explicit and Implicit Prosody in Sentence Processing*, 85-98.