ANDREA OVALLE

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EDUCATION

Smith College, Northampton, MA ***January 2018***
Major: B.A. in Neuroscience

Bunker Hill Community College, Charlestown, MA ***December 2014***
Major: A.A. in Psychology

SKILLS

Technologies: RStudio, Python, MongoDB, Docker (beginner), GitHub, SQL (beginner)
Foreign Languages: Fluent in Spanish (Native Language)

INDUSTRY AND RESARCH EXPERIENCE

Bioinformatic Analyst, Data Science Department ***February 2020 - Current***
Knowledge Systems Group, Dana-Farber Cancer Institute, Boston, MA
Group focuses on building technologies to facilitate patient enrollment into genomically driven trials.

- MatchMiner Platform:
  - Curates eligibility criteria of clinical trials by extracting and converting free text from clinical protocols into a structured and computationally ready format.
  - Validates the quality of data after the implementation of new features and bug fixes.
  - Develops new code to delivery data to clinicians
  - Assess the validity of current logic that defines the impact of the platform on trial enrollment.
  - Implements new logic to capture a wider range of patients that have benefited from the platform
  - Proposes and helps implement new ideas for better record keeping
  - Develops visualizations of the usage trends of different features of the platform.

Research Assistant, Data Science Department
Knowledge Systems Group, Dana-Farber Cancer Institute, Boston, MA

Summer Intern, Biostatistics and Computational Biology ***June - July 2017***
Harvard T.H Chan School of Public Health, Boston, MA
Program focuses on introducing computational biology, statistical and epidemiological research methods to address public health issues.
Research project: *"Exploring the Gene Regulatory Effects of Protein Kinase Inhibitors in M. Tuberculosis using PANDA"*

- Performed data wrangling and exploratory analysis of genomic data from *M. Tuberculosis* using the (PANDA) *Passing Attributes between Networks for Data Assimilation* algorithm.
- Compared and explored different data types to optimize and improve the regulatory gene networks in *M. Tuberculosis* produced by PANDA.
- Created intricate visualizations of gene regulatory networks in RStudio.

Summer Intern, Familial Dementia and Neuroimaging Lab ***June - August 2016***

Massachusetts General Hospital**,** Charlestown, MA

Psychiatry Department - Lab focuses on the study of biological markers and age related cognitive changes that may predispose individuals to develop neurodegenerative diseases.

- Performed exploratory analyses of eye-tracking data that consisted of wrangling and cleaning data, performing descriptive statistics and creating intricate visualizations of fixation patterns of participants that were in the final preclinical stages of familial Alzheimer's disease.
- Supervised participants during doctor appointments and assisted with translation between English and Spanish during doctor visits.

Research project: *"Executive Function in Preclinical Autosomal Dominant Alzheimer's Disease"*

- Research project focused on finding associations between neuropsychological tests and biological markers in a Colombian kindred with the PSEN-1 mutation.

ORAL PRESENTATIONS AND POSTERS

Andrea Ovalle, Ursula Widocki, John Platig Ph.D., Dr. John Quackenbush Ph.D. 2017. *Exploring The Gene Regulatory Effects of Protein Kinase Inhibitors in M. Tuberculosis Using PANDA*. Presentation at the Pipelines into Biostatistics Annual Symposium Conference, Dana-Farber Cancer Institute, Boston, MA.

Andrea Ovalle, Daniel Norton Ph.D., Ana Baena B.A., Molly Lapoint, Danielle Cosio, Francisco Lopera M.D., and Yakeel Quiroz Ph.D. 2016. *Executive Function in Preclinical Autosomal Dominant Alzheimer's Disease*. Presentation at the New England Psychological Association Conference, Assumption College, Worcester, MA.
