

LINH PHAM

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Current

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Permanent

No 29, Alley 79, Tran Cung
Hanoi, Vietnam

EDUCATION

Georgetown University, M.S. in *Mathematics and Statistics, Washington, D.C.*

Sep 2017-Dec 2018

- GPA: 4.00/4.00
- Departmental Merit Based Scholarship
- Courses: Mathematical/Statistical Computing, Deterministic Math Models, Probability Theory/Application, Financial Mathematics, Statistical Learning, Mathematical Statistics

Bard College, B.A. in *Mathematics, Annandale-on-Hudson, New York*

2010-2014

- GPA: 3.71/4.00
- Distinguished Scientist Full Tuition Scholarship (four years)
- Departmental Best Student Award ("Book Award")
- Relevant courses: Calculus, Linear Algebra, Combinatorics, Probability and Statistics, Dynamical Systems

Central European University, *Budapest, Hungary*

Jan 2013-July 2013

- Successfully completed three masters level mathematics courses during a 6-month study abroad program

SKILLS

- **Programming language:** Python, R, SQL, MATLAB, LaTeX, Mathematica, Microsoft Office Suite
- **Languages:** English (fluent), Vietnamese (native), French (Intermediate), Hebrew (beginner)
- **Dance:** Ballroom dance, modern dance

RELEVANT EXPERIENCE

Mathematical/Statistical Analysis

- Studied the effect of particle pollutants on DNA methylation of 100 Seattle residents using linear regression analysis
- Performed genetic variant analysis from microarray data of 100 autistic children and parents. Result suggests that microarray test has 15% diagnostic yield
- Created a wavelet transform model for brainwave (EEG) analysis, and studied a calibrating technique to prevent pitfalls from traditional analysis while finding frequencies of the EEG
- Analyzed credit card transaction data (100K records per day) to determine potentially fraudulent transactions. Enhanced algorithms which reduced the fraudulent rate in a market of yearly \$1.2+M from 4% to 1%

Programming

- Studying machine learning in R. Carrying on a class project on investigating factors affecting market stock prices.
- Created R script to automatically generate and save qqplot, residual vs. fitted plot, and numerical results for research evaluating the effect of particle pollutants on human DNA methylation
- Created a Python cross-platform GUI application for the study of wavelet transform, and implemented a new calibrating technique in this GUI.
- Extracted credit card transaction data from SQL database, then used Python (Pandas package) to analyze the data

Communication

- Prepared monthly reports incorporating patient families' medical history collected from field interviews and analysis findings. Aggregated a report presented at the Asia Pacific Conference on Human Genetic (2017)
- Edited a \$1M research proposal to build a Vietnamese reference genome
- Coordinated with optimization, and customer service teams to ascertain an optimal balance between risk and revenue management

WORK HISTORY

Georgetown University, Washington, D.C., *Research Assistant*, Sep 2017 - Present

Vinmec Health Care System, Hanoi, Vietnam, *Data Analyst*, Oct 2016 - Jul 2017

Paymentwall Inc., Hanoi, Vietnam, *Risk Data Analyst*, Mar 2016 - Aug 2016

The Green Neuroscience Laboratory, San Diego, *Researcher*, Sep 2014 - Oct 2015

University of California, San Diego, *Economic Research Assistant*, Dec 2013 - Jan 2014