KRIT PETRACHAIANAN

krit.petra@gmail.com · (641) 260 6308

San Francisco, CA *(current)* · Bangkok, Thailand *(permanent)*

EDUCATION

Grinnell College   **Grinnell, IA**
B.A. in *Mathematics & Statistics* and *Physics*, with honors   *Received May 2017*
Cumulative GPA: 3.76/4.00

Selected Coursework: Statistical Modeling · Algorithms & Object-Oriented Design · Probability & Statistics
Abstract Data Structures · Computational Physics · Social Network Analysis

STATISTICS EXPERIENCE

Data Consultant   **Grinnell, IA**
Data Analysis and Social Inquiry Lab, Grinnell College   August 2015 – May 2017
- Offered one-on-one statistical guidance to 3-5 students a week with data analysis in research projects in the social sciences
- Extracted data and clean relevant variables in preparation for instructional use
- Used R, Tableau, and D3 to create interactive visualizations to accompany datasets
- Communicated biweekly with instructors to maintain clear understanding of desired project specifications

R Developer   **Grinnell, IA**
Stat2Labs, Grinnell College   May 2015 – August 2016
- Developed worksheets and other instructional materials in R Markdown for use in advanced statistics courses
- Used Shiny and Leaflet in R to create two interactive spatial visualizations on global terrorism and racial disparities in New York City
- Collaborated with four other students over one summer to create five additional visualizations

Statistics Mentor   **Grinnell, IA**
Math Lab, Grinnell College   August 2015 – May 2017
- Mentored more than 20 students per semester for an advanced R-based statistics course
- Assisted 5-10 students per week with understanding concepts in both introductory and advanced statistics courses

LEADERSHIP EXPERIENCE

Summer Institute Planning Committee   **Grinnell, IA**
Digital Bridges for Humanistic Inquiry   June 2016
- Collaborated with college faculty over two weeks to organize a week-long conference on the digital humanities
- Hosted and led a Tableau workshop for twenty faculty members from Grinnell College and the University of Iowa

President   **Samutprakarn, Thailand**
Village Education Program, Global Issues Network, Thai-Chinese International School   August 2011 – May 2012
- Developed English-learning curriculum and tutored children in small groups three times a week after school
- Coordinated with school and village leaders via monthly meetings to balance student needs with teaching resources

CONFERENCES AND AWARDS

Midwest Big Data Hackathon, Second Place
University of Iowa   October 2016
- Used R to create an interactive social network diagram in a team of two within a span of 24 hours, winning 2nd place out of 36 other teams

Undergraduate Class Project Competition (USCLAP), First Place
Consortium for the Advancement of Undergraduate Statistics Education (CAUSE)   September 2016
- Won first place in national competition against an estimated number of 100 other groups with "Validating Cattell's 16PF Model with Exploratory Factor Analysis"

Electronic Conference On Teaching Statistics (eCOTS)
Consortium for the Advancement of Undergraduate Statistics Education (CAUSE)   May 2016
- Co-author of "Visualizations Designed to Engage Student Learning" presented at the conference

OTHER SKILLS

Tools and Frameworks

Statistics:	RStudio · Excel · Minitab
Visualization:	Shiny · Tableau · D3 · Leaflet
Web:	NodeJS · Express · React/Redux
Database:	MongoDB

Languages

Computer:	R · Javascript · Java · C · Python
Human:	English · Thai · Mandarin Chinese