

Alan Peral

CONTACT INFORMATION	Phone: (312) 610-3580 Email: alan.peralortiz@pomona.edu	Website: http://www.aaperal.com
EDUCATION	Pomona College , Claremont, CA <i>B.A., Mathematics</i> <i>Minor, Computer Science</i> Relevant Coursework Algorithms, Operations Research, Data Structures and Advanced Programming, Machine Learning, Computational Statistics, Probability	May 2018
SKILLS	<i>Programming/Markup Languages:</i> Java, JavaScript, Python, R, C, SML, HTML, CSS, L ^A T _E X <i>Frameworks/Libraries:</i> jQuery, AngularJS, Bootstrap <i>Languages:</i> Spanish, French	
EXPERIENCE	WunderTec , Mexico City <i>Intern</i> Worked on building enterprise software to handle every aspect of clients' business operations, including project management, online payment processing, automated billing systems. IT service management, customer relationship management, and more. CodeU <i>Mentee</i> Completed online technical curriculum to increase fluency with advanced algorithms and working with databases. Working with the Apache Lucene library, built a search engine with auto-complete capabilities, spell-check feature, TF-IDF implementation, and other features. Computer Science Department , Claremont, CA Math Department , Claremont, CA <i>Teaching Assistant</i> Held weekly mentor and lab sessions for 50 students in an Introductory Computer Science course. Graded problem sets for 20 students in Introduction to Computer Science and 40 students in a Combinatorics course. Also held mentor sessions for 30 students in an Honors Calculus course. Math Department , Claremont, CA <i>Research Assistant</i> Sought to generalize theorem about subsets of the finite set to the divisors of an integer. Found counterexamples to several existing conjectures about the width of cutsets in the divisor lattice which then allowed me to formulate new conjectures.	June 2016 – Aug 2016 Feb 2016 – Aug 2016 September 2016 – Present Feb 2016 – May 2016
ACTIVITIES	Pomona College , Claremont, CA <i>Resident Assistant</i> Served as the first point of contact for all needs of hall residents with the goal of establishing a positive living environment. Responsible for assisting with security, addressing emergencies, coordinating campus-wide activities, counseling, and enforcing college policies. Chicano-Latino Student Affairs , Claremont, CA <i>Mentor</i> Served as a mentor for first year students who identified as latinx in order to ease their transition into an often alienating college environment.	May 2015 – May 2016 August 2016 – May 2017
PROJECTS	Visualizing the Effects of Armed Conflicts Used the UCDP/PRIO Armed Conflict Dataset and socioeconomic indicator data from the World-Bank to build an analysis and visualization tool with R and Shiny that displays the network of conflicts between nations, the effect of conflicts on various socioeconomic indicators in a nation, and the prevalence of conflict in the Global South.	November – December 2017