Education

**University of California, Los Angeles**

PhD (expected May 2017), M.A. Political Science (Immigrant Politics, Agent Based Modeling) 2017

* Social Science Research Council (SSRC) graduate fellow

M.S. Statistics (Regression Analysis, Survey Methodology) 2013

**Yale University**

B.S., Mechanical Engineering and International Studies 2006

Work Experience

ApplyMap, **Cofounder & Technical Lead** 2013- 2015

*Los Angeles, CA:* *Internet startup that uses advanced statistics to find optimal application portfolios for college-bound students.*

* Developed ApplyMap’s core IP including (1) a novel method for predicting college admissions probability and (2) a patent-pending portfolio optimization algorithm to de-risk and maximize return on college applications.
* Created and managed tech stack which uses PHP, JS, python, nginx, mongodb, MySQL and R, as well as other techs.
* Helped raise over $90K in seed funding from crowdfunding and accelerators.

University of California, Los Angeles, **Instructor**

* Instructor of Record: Intro to Data Analysis 2013–2014

Developed new curriculum for course that is required for all UCLA undergraduate poli. sci. majors.

* Teaching Assistant: Strategy and Politics, Research Design, Social Choice, Int’l Law, etc. 2011–2013
* Writing Consultant: Graduate Writing Center 2010–2013

First Capitol Consulting, Inc., **IT Manager** 2008 – 2009

*Los Angeles, CA:* *Accounting firm specializing in state and Federal hiring tax incentives, with over 2500 clients.*

* Increased client capacity by 50% with only 10% increase in staff size by designing and co-writing software for streamlining tax consulting processes.
* Began drive toward a web-centric business model by helping write software capable of integration with 3rd party applications, and managing migration of company resources to remote data center.
* Managed comprehensive overhaul of IT resources for movement towards compliance with AICPA SOC2 standards.

AndyPrep Academy, **College Admissions Consultant** 2007 – 2010

*Seoul, Korea:* *College prep. academy providing test prep. and educational consulting, for over 500 students per year.*

* Created admissions consulting process based on statistical regression using R and Visual Basic, improving fit between clients and their goals. Increased year-on-year “reach” yield by 33%, increasing customer satisfaction.
* Reduced seasonal training time and costs by 40% by designing and leading training process for new teachers and junior consultants. My training workshop helped cut costs while maintaining staff quality, supporting a 50% growth of business size over proceeding 4 years.
* Maintained a personal yield rate of 38% for clients entering “reach” schools such as Harvard, Cornell and Columbia.

Center for Strategic and International Studies (CSIS), **Consultant** 2006 – 2008

*Washington, DC:* *Bipartisan think-tank providing policy and strategic analyses for decision-makers around the world.*

* Secured a $100,000 grant to study the impacts of the Korean-American community on U.S. foreign policy. Worked with reps. from RAND, the Congressional Research Service and grassroots groups in LA, NY and DC, increasing awareness among policy advisors and community leaders of political impact of the KA community.
* Helped plan and execute policy workshops and conferences with partner institutions incl. the Taiwanese “embassy” (TECRO), China Institutes of Contemporary Int’l Relations (CICIR), and Chosun Ilbo.

Naval War College, **Summer Intern**

Newport, RI 2005

* Coauthored a case study on North Korea’s strategic role in East Asia for use in the education of U.S. Naval officers.

Jet Propulsion Laboratory (JPL), **Mission Planning and Nav. Intern**

Pasadena, CA 2004

* Developed software for analyzing cross-sectional profile of satellites using MATLAB and Satellite Orbital Analysis Program (SOAP). Built a CAD model of the Mars Reconnaissance Orbiter (MRO) that was used in nav. planning.

Teaching Experience

University of California, Los Angeles, **Teaching Assistant**/**Instructor**

* Graduate Writing Center 2010-2014

Teach fellow graduate students how to be better writers through 1-on-1 appointments. Designed and teach the “personal statement,” “quantitative social science writing,” and “statistics writing” workshops. Workshops averaged 20-30 participants. Consistently received marks of 4 or 5 (out of 5) on meeting and workshop evaluations.

* Research Design 2012 - 2013

Advised undergraduate political science honors students in shaping and completing honors theses on a wide array of topics ranging from statistical analyses of World Bank data to theoretical treatises on Machiavelli.

* Collective Action 2012

Helped ensure that all 116 students in the course understood models of collective action.

* International Law 2011

Taught undergraduates about interactions of domestic and international law, with readings of US Supreme Court opinions, and ICJ and ICC case law. Teaching evaluations averaged ~8/9, one of the highest in my department.

AndyPrep Academy, **SAT Instructor** 2007 – 2008

*Seoul, Korea:* *College prep. academy providing test prep. and educational consulting, for over 500 students per year.*

* Prepared high school students for the SAT I and SAT II tests by teaching subject matter and test-taking strategies. Classes included both ESL and native speakers of English, and students across the gamut of academic achievement.

Certifications

Offensive Security Certified Professional (OSCP) (expected) 2017

Certified Information Systems Security Professional (CISSP) 2017

Cisco Certified Network Associate (CCNA) 2016

GIAC Exploit Researcher and Advanced Penetration Tester (GXPN) 2016

GIAC Network Forensic Analyst (GNFA) 2016

Research, Publications, & Patents

Lim, D. 2014. A Method and System for Creating a List of Organizations Based on an Individual’s Preferences and Personal Characteristics. U.S. Patent Application 14257986, filed April 2014. Patent Pending.

Lim, D. “Immigration Policy, Native Institutions and Incorporation Among Marriage Migrants in Korea.” Unpublished paper. Presented at the Midwest Political Science Association Conference 2012, Chicago, IL.

* Demonstrated that marriage migrants to Korea become more politically incorporated than guest laborers as a by-product of policies formulated for economic and cultural aims. Based on a dozen interviews and over 300 surveys from migrants of both types. The latter analyzed using the causal mediation framework of Imai, Tingley, Keele 2010.

Lim, D. “The Effects of Pre-Migration Factors on Host Country Voting.” Unpublished paper. Presented at the Midwest Political Science Association Conference 2011, Chicago, IL.

* Explored potential ways in which immigrant-citizens’ pre-migration experiences affect their long-term political behavior. Based on hierarchical modeling of a composite dataset constructed from individual-level voter surveys and country-level datasets such as Polity IV, Correlates of War and Penn World Tables.

Choi B, Lim D, and Mitchell J. “Korean-American Attitudes toward and Impact on U.S.-Korea Policy.” Washington: CSIS, 2008.

Languages

|  |  |
| --- | --- |
| Computer Languages | Fluent: R, Python, HTML, CSS, JavaScript, SQL, PHP,  Proficient: C/C++/C#, VBA, LaTeX, bash, BUGS/JAGS, Java |
| Languages | Korean: fluent (4/5 DLPT), publication-quality Korean to English translation.  DLAB: 135 |