

CONTACT	<p>Email: <a href="mailto:larryan@g.harvard.edu">larryan@g.harvard.edu</a>  Website: <a href="https://larrylehan.github.io">larrylehan.github.io</a>  Cell: (919) 272-1491</p>
RESEARCH INTERESTS	<p>Methodological: Causal inference; Federated learning; Optimization; Semi-supervised learning; Sensitivity analysis; Surrogate markers; Survival analysis; Transfer learning; Trial design</p> <p>Applications: Cardiology; Crowdsourcing; EHR; Global health; Health policy; Infectious diseases (Covid-19, HIV, Influenza); Rapid testing; Social innovation; Quality measurement</p>
EDUCATION	<p><b>Ph.D. Candidate in Biostatistics</b>, <i>Harvard University</i>, Expected 2023  Advisors: Tianxi Cai, Lorenzo Trippa  Committee: Rui Duan, Sebastian Schneeweiss</p> <p><b>A.M. in Biostatistics</b>, <i>Harvard University</i>, 2020</p> <p><b>M.Phil. in Healthcare Operations</b>, <i>University of Cambridge</i>, 2018  <i>Distinction (Highest Honors), Top Thesis Award</i>  Advisor: Stefan Scholtes</p> <p><b>M.A. in Global Affairs</b>, <i>Tsinghua University</i>, 2017  <i>Outstanding Master's Thesis Award</i>  Advisor: Michael Powers</p> <p><b>B.S. in Public Health, Biostatistics</b>, <i>University of North Carolina at Chapel Hill</i>, 2016  <i>Highest Honors, Highest Distinction</i>  Advisors: Michael Hudgens, Joseph Tucker</p>
FUNDING	<p><b>WHO/TDR</b> Social Innovation in Health Research Grant, 2019–2022  Co-Principal Investigator, \$190,000 USD annually</p> <p><b>NIH T32</b> COMET Training Grant, 2020–Present  Coordinator: Jeffrey Katz, Distinguished Chair in Orthopaedic Surgery, HMS</p> <p><b>NIH T32</b> Big Data to Knowledge Training Grant, 2018–2020  Coordinator: John Quackenbush, Department Chair, Harvard Biostatistics</p>
HONORS & AWARDS	<p>2022 ASA Young Investigator Award, Section on Statistics in Epidemiology  2021 John Van Ryzin Award  2021 ENAR Distinguished Student Paper Award  2021 ASA Biopharmaceutical Regulatory-Industry Statistics Workshop Student Poster Award  2021 New England Statistics Symposium Student Poster Award  2021 Best Student Poster, Harvard Chan Poster Day  2019 25 Under 25 Leaders in US-China Relations, China Hands  2017 Gates Cambridge Scholarship  2016 Schwarzman Scholarship  2016 Phillips Ambassadors 10-Year Anniversary Award  2016 Order of the Golden Fleece  2016 Delta Omega Award of Excellence  2015 Goldwater Scholarship  2014 Phillips Ambassadorship  2012 Morehead-Cain Scholarship</p>

2012 National Merit Scholarship

## EXPERIENCE

**Aegis Ventures, Consultant**, 2021–Present

- Developing machine learning models and validation for the analysis of electronic health records in a joint venture with Northwell Health

**VA Boston Healthcare System, WOC**, 2021–Present

- Developing semi-supervised methods for the design of pragmatic trials of the Heart Failure Program at VA (supervised by Jacob Joseph)

**Health Care Policy at Harvard Medical School, Research Associate**, 2021–Present

- Designing robust methods for the estimation of causal effects in distributed data settings with applications for quality measurement (supervised by Jose Zubizarreta)

**Social Entrepreneurship to Spur Health, Co-Founder**, 2015–Present

- Founded a healthcare start-up focused on public health interventions using crowdsourcing
- Co-led a randomized controlled trial evaluating a video intervention among high-risk populations in China (details here: <https://clinicaltrials.gov/ct2/show/NCT02248558>).

**Brigham and Women’s Hospital, Statistical Consultant**, 2019–2021

- Lead statistician on multiple cardiovascular genetics projects leveraging the international SHaRE Data Registry for hypertrophic cardiomyopathy (supervised by Carolyn Ho)

**Bridgewater Associates, Intern**, 2018

- Evaluated investment processes for Pure Alpha portfolio construction
- Developed strategies for creating a sustainable talent recruitment pipeline

## WORKING PAPERS

### Theory and Methods

- [7] **Han, L.**; Duan, R.; Cai, T. “Federated Adaptive Causal Estimation (FACE) for Target Treatment Effects.” *Arxiv*, 2021 Dec.
  - 2022 ASA Young Investigator Award, Section on Statistics in Epidemiology
- [6] **Han, L.**; Wang, X.; Cai, T. “Identifying Real-World Surrogate Markers for Comparative Effectiveness Research.” *Submitted to Biostatistics*.
  - 2021 John Van Ryzin Award, ENAR Distinguished Student Paper Award
- [5] **Han, L.**; Li, Y.; Niknam, B.; Zubizarreta, J. “Privacy-Preserving and Communication-Efficient Causal Inference for Hospital Quality Measurement.” *2022+*.
- [4] **Han, L.**; Arfe, A.; Trippa, L. “Representative and Optimal Sensitivity Analysis (ROSA) for Clinical Trials.” *2022+*.
- [3] **Han, L.**; Hou, J.; Cai, T. “Semi-supervised Estimation for Pragmatic Trial Design.” *2022+*.
- [2] Han, S.; **Han, L.**; Zubizarreta, J. “Principal Resampling for Causal Inference.” *2022+*.
- [1] Wang, X.; Parast, L.; **Han, L.**; Tian, L.; Cai, T. “Robust Approach to Combining Multiple Markers to Improve Surrogacy.” *Invited revision at Biometrics*.

## PUBLICATIONS

### Crowdsourcing/Social Innovation

- [30] **Han, L.**; Tang, W.; Tiarney, R.; et al. “Joint International Consensus Statement on Crowdsourcing Challenge Contests in Health and Medicine: Results of a Modified Delphi Process.” *BMJ Open*, 2021 Oct, *Accepted*.

- [29] Day, S.; Li, C.; Hlatshwako, T.; Abu-Hijleh, F.; **Han, L.**; Deitelzweig, C.; Bayus, B.; Ramaswamy, R.; Tang, W.; Tucker J. “Assessment of a Crowdsourcing Open Call for Approaches to University Community Engagement and Strategic Planning During COVID-19.” *JAMA Network Open*, 2021 May ;4(5):e2110090.
- [28] Halpaap, B.; Tucker, J.; Mathanga, D.; Juban, N.; Awor, P.; Saravia, N.; **Han, L.**; et al. “Social Innovation in Global Health: Sparking Location Action.” *Lancet Global Health*. 2020 May; 8(5):e633-634.
- [27] Wang, C.; **Han, L.**; Stein, G.; et al. “Crowdsourcing in Health and Medical Research: A Systematic Review.” *Infectious Diseases of Poverty*. 2020 Jan 20; 9(1):8.
- [26] **Han, L.**; Chen, A.; Wei, S.; et al. “Crowdsourcing in Health & Health Research: A Practical Guide.” *Geneva: World Health Organization*. 2018 July. License: CC BY-NC-SA 3.0 IGO.
- [25] SESH Study Group (**Han, L.**); Tucker, J. “Crowdsourcing to Promote HIV Testing Among MSM in China: Study Protocol for a Stepped Wedge Randomized Controlled Trial.” *Trials*. 2017 Oct 2;18(1):447.

## EHRs / RCTs

- [24] McCoy, T.; **Han, L.**; Pellegrini, A.; et al. “Stratifying Risk for Dementia Onset Using Large-Scale Electronic Health Record Data: A Retrospective Cohort Study.” *Alzheimer’s & Dementia: The Journal of the Alzheimer’s Association*. 2020 Jan 16 (Featured Article).
- [23] **Han, L.**; Fine, J.; Robinson, S.; Boyle, A.; Freeman, M.; Scholtes, S. “Is Seniority of Emergency Physician Associated with the Weekend Effect?” *Emergency Medicine Journal*. 2019 Dec;36(12):708-715.
- [22] **Han, L.**; Hudgens, M.; Emch, M.; et al. “RTS,S/AS01 Malaria Vaccine Efficacy is Not Modified by Seasonal Precipitation: Results from a Phase 3 Randomized Controlled Trial in Lilongwe, Malawi.” *Scientific Reports*. 2017 Aug 3;7(1):7200.
- [21] Tang, W\*.; **Han, L.\*.**; Best, J\*.; et al. “Crowdsourcing HIV Test Promotion Videos: A Non-inferiority Randomized Controlled Trial in China.” *Clinical Infectious Diseases*. 2016 Jun 1;62(11):1436-42.

\*Co-first authors

## Cardiology

- [20] Nauffal, V.; Marstrand, P.; **Han, L.**; et al. “Worldwide Differences in Primary Prevention Implantable Cardioverter Defibrillator Utilization and Outcomes in Hypertrophic Cardiomyopathy.” *European Heart Journal*, 2021 Sep, ehab598.
- [19] Marston, N.; **Han, L.**; Olivotto, I.; et al. “Clinical Characteristics and Cardiovascular Outcomes in Childhood-Onset Hypertrophic Cardiomyopathy Compared with Adult-Onset Disease.” *European Heart Journal*. 2020 May, 42(20), 1988-1996.
- [18] Lakdawala, N.; Olivotto, I.; Day, S.; **Han, L.**; et al. “Associations Between Female Sex, Sarcomere Variants and Clinical Outcomes in Hypertrophic Cardiomyopathy.” *Circulation: Genomic and Precision Medicine*. 2020 Dec. Epub ahead of print. PMID: 33284039.
- [17] Sidhu, K.; **Han, L.**; Picard, K.; et al. “Ventricular Tachycardia in Cardiomyopathy: Characteristics and Considerations for Device Programming.” *Heart Rhythm*. 2020 Oct 1; 17(10):1704-1710.
- [16] Marstrand, P.; **Han, L.**; Day, S.; et al. “Hypertrophic Cardiomyopathy with Left Ventricular Systolic Dysfunction: Insights from the SHaRe Registry.” *Circulation*. 2020 Apr 28; 141(17):1371-1383.
- [15] Eberly, L.; Day, S.; Ashley, E.; Jacoby D.; Jefferies, J.; Colan, S.; Rossano, J.; Semsarian, C.; Pereira, A.; Olivotto, I.; Ingles, J.; Seidman, C.; Channaoui, N.; Cirino, A.; **Han, L.**; Ho, C.; Lakdawala, N. “Association of Race with Disease Expression and Clinical Outcomes Among Patients with Hypertrophic Cardiomyopathy.” *JAMA Cardiology*. 2019 Dec.

## HIV and STD Testing

- [14] Liu, F.; Qin, Y.; Meng, S.; Zhang, W.; Tang, W.; **Han, L.**; et al. "HIV Self-Testing among MSM in China: A Qualitative Implementation Research Study." *Journal of Virus Eradication*. 2019 Nov 4;5(4):220-224.
- [13] Li, K.; Tang, W.; Wu, D.; Huang, W.; Feng, W.; Lee, A.; Feng, H.; Pan, S.; **Han, L.**; Mak, V.; Yang, L.; Tucker, J. "Pay-it-forward Dual Gonorrhea/Chlamydia Test Uptake among MSM in China: A Pragmatic, Quasi-Experimental Study." *The Lancet Infectious Diseases*. 2019 Jan;19(1):76-82.
- [12] Qin, Y.\*; **Han, L.\***; Babbitt, A.; et al. "Experiences Using and Organizing HIV Self-Testing." *Journal of the International AIDS Society*. 2018 Jan 28;32(3):371-381.  
*Co-first authors*
- [11] Wong, N.; Tang, W.; **Han, L.** et al. "MSM HIV Testing Following an Online Testing Intervention in China." *BMC Infectious Diseases*. 2017 June 19;17(1):437.
- [10] Zhang, T.\*; Liu, C.\*; **Han, L.\*** et al. "Community Engagement in Sexual Health and Uptake of HIV Testing and Syphilis Testing Among MSM in China: a Cross-sectional Online Survey." *Journal of the International AIDS Society*. 2017 Apr 3;20(1):21372.  
*Co-first authors*
- [9] Tang, W.; Mao, J.; Tang, S.; Liu, C.; Mollan, K.; Cao, B.; Wong, T.; Zhang, Y.; Hudgens, M.; Qin, Y.; **Han, L.**; et al. "Disclosure of Sexual Orientation to Health Professionals in China: Results from an Online Cross-Sectional Study." *Journal of the International AIDS Society*. 2017 Feb 6;20(1):21416.
- [8] Hu, J.; Gu, X.; Tao, X.; Qian, Y.; Babu, G.; Wang, G.; Liao, M.; **Han, L.**; Kang, D.; Tang, W. "Prevalence and Trends of HIV, Syphilis, and HCV in Migrant and Resident MSM in Shandong, China: Results from a Serial Cross-Sectional Study." *PLoS One*. 2017 Jan 19;12(1):e0170443.
- [7] **Han, L.**; Wei, C.; Muessig, K.; et al. "HIV Test Uptake Among MSM in China: Implications for Enhanced HIV Test Promotion Campaigns Among Key Populations." *Global Public Health*. 2016 Jan:1-14.
- [6] Best, J.; Tang, W.; Zhang, Y.; **Han, L.**; et al. "Sexual Behaviors and HIV/Syphilis Testing Among Transgender Individuals in China: Implications for Expanding HIV Testing Services." *Sexually Transmitted Diseases*. 2015 May;42(5):281-5.
- [5] Bien, C.; Best, J.; Muessig, K.; Wei, C.; **Han, L.**; Tucker, J. "Gay Apps for Seeking Sex Partners in China: Implications for MSM Sexual Health." *AIDS and Behavior*. 2015 June;19(6):941-6.
- [4] Tucker, J.; Muessig K.; Cui, R.; Bien, C.; Lo, E.; Lee, R.; Wang, K.; **Han, L.**; et al. "Organizational Characteristics of HIV/Syphilis Testing Services for MSM in South China: a Social Entrepreneurship Analysis and Implications for Creating Sustainable Service Models." *BMC Infectious Diseases*. 2014 Nov 25;14:601.
- [3] **Han, L.**; Bien, C.; Wei, C.; Muessig, K.; Yang, M.; Liu, F.; Yang, L.; Meng, G.; Emch, M.; Tucker, J. "HIV Self-Testing Among Online MSM in China: Implications for Expanding HIV Testing Among Key Populations." *Journal of Acquired Immune Deficiency Syndromes*. 2014 Oct 1;67(2):216-21.
- [2] Wei, C.; Muessig, K.; Bien, C.; Yang, L.; Meng, R.; **Han, L.**; Yang, M.; Tucker, J. "Strategies for Promoting HIV Testing Uptake: Willingness to Receive Couple-Based and Collecting HIV Testing Among a Cross-Sectional Online Sample of MSM in China." *Sexually Transmitted Infections*. 2014 Sep;90(6):469-74.
- [1] Tucker, J.; Galler, S.; **Han, L.** "Spurring Innovation in Designing HIV Testing Programs: A Crowdsourcing Contest-based Approach." *Annals of Global Health*. 2014 May;80(3):223-4.

## TALKS/ CONFERENCES

- [28] "Federated Adaptive Causal Estimation of Target Treatment Effects." *JSM, Washington, D.C.* (Aug 2022). **ASA Young Investigator Award, Section on Statistics in Epidemiology.**
- [27] "Privacy-Preserving and Communication-Efficient Causal Inference for Hospital Quality Measurement." *American Causal Inference Conference, Berkeley, CA.* (May 2022).
- [26] "Distributed Causal Inference." *ENAR, Houston, TX.* (Oral, Mar 2022).
- [25] "Identifying Real-World Surrogate Markers for Replicating Clinical Trials." *New England Statistics Symposium, Virtual.* (Invited Speaker, Oct 2021).

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- [24] “Optimal Sensitivity Analysis for Clinical Trial Design.” *New England Statistics Symposium, Virtual*. (Poster, Oct 2021). **Best Poster Award**.
  - [23] “Distributed Causal Inference.” *Johns Hopkins Causal Inference Working Group, Virtual*. (Invited Speaker, Sep 2021).
  - [22] “On the Evaluation of Surrogate Markers in Real World Data Settings.” *ASA Biopharmaceutical Section Regulatory-Industry Statistics Workshop, Virtual* (Poster, Sep 2021). **Best Poster Award**.
  - [21] “On the Evaluation of Surrogate Markers in Real World Data Settings.” *ENAR, Virtual* (Oral, Mar 2021). **John Van Ryzin Award and ENAR Distinguished Student Paper Award**.
  - [20] “On the Evaluation of Surrogate Markers in Real World Data Settings.” *Harvard Chan Poster Day, Virtual* (Oral, Feb 2021). **Best Student Poster Award**.
  - [19] “Distributed Causal Learning.” *Harvard-MIT Center for Regulatory Science Doctoral Student Symposium, Virtual* (Oral, Feb 2021).
  - [18] “Distributed Learning for Causal Modelling.” *University of Michigan Statistics for Individualized Healthcare Lab, Virtual*. (Invited Speaker, Dec 2020).
  - [17] “Social Innovation for Infectious Diseases of Poverty: Sparking Local Innovation.” *American Society of Tropical Medicine & Hygiene 68th Annual Meeting, National Harbor, Maryland*. (Invited Symposium Panelist, Nov 2019).
  - [16] “Is Seniority of Emergency Physician Associated with the Weekend Mortality Effect?” *INFORMS Healthcare: Transforming Health with Data, Mind, and Body*. MIT Sloan School of Management, Cambridge, MA. (Invited Panelist, July 2019).
  - [15] “Excess Mortality Associated with Junior Doctor Treatment at the Weekend: An Analysis of Electronic Medical Records in the UK.” *Biobanks: Study Design and Data Analysis*, Program in Quantitative Genomics, Harvard Medical School, Boston, MA. (Poster, Nov 2018).
  - [14] “Co-Creating a Research Culture and Guide for Social Innovation.” *World Health Organization Social Innovation in Health Initiative, Blantyre, Malawi*. (Oral, June 2018).
  - [13] “Crowdsourcing in Health and Medicine: Developing a Practical Guide and Systematic Review.” *London School of Hygiene & Tropical Medicine Centre for Evaluation Series, London, UK*. (Oral, May 2018).
  - [12] “Surviving the Weekend Effect: a Competing Risks Analysis of Excess Weekend Mortality at Addenbrooke’s Hospital.” *Cambridge Judge Business School Healthcare Operations Lecture Series, Cambridge, UK*. (Oral, March 2018).
  - [11] “Human Survival.” *Schwarzman Scholars Symposium, Beijing, China*. (Oral, June 2017). **First Prize**.
  - [10] “A Global Qualitative Systematic Review of HIV Self-testing.” *20th International Union Against Sexually Transmitted Infections - Asia-Pacific Conference, Okayama, Japan*. (Oral, Dec 2016).
  - [9] “RTS,S Malaria Vaccine Efficacy Does Not Vary with Seasonal Precipitation: Results from a Phase 3 RCT in Lilongwe, Malawi.” *65th Annual American Society of Tropical Medicine & Hygiene Conference, Atlanta, GA*. (Poster, Nov 2016).
  - [8] “The Social Context of HIV Self-testing: A Global Qualitative Evidence Synthesis.” *21st International AIDS Conference, Durban, South Africa*. (Poster, July 2016).
  - [7] “Survival Analysis from a Phase 3 RCT: RTS,S/AS01 Malaria Vaccine Efficacy in Lilongwe, Malawi and its Interaction with Seasonal Precipitation.” *UNC Project-Malawi, Lilongwe, Malawi*. (Oral, Mar 2016).
  - [6] “Tailoring Mass Media MSM HIV Test Interventions to Reach High-Risk Men.” *Conference on Retroviruses and Opportunistic Infections (CROI) 2016, Boston, MA*. (Poster, Feb 2016).
  - [5] “Crowdsourcing to Spur First-time HIV Testing among MSM and Transgender Individuals in China: a Non-inferiority Pragmatic Randomized Controlled Trial.” *8th IAS Conference on HIV Pathogenesis Treatment & Prevention, Vancouver, Canada*. (Oral, July 2015).
  - [4] “Availability and Quality of Online HIV Self-Test Kits in China and the United States.” *Conference on Retroviruses and Opportunistic Infections (CROI) 2015, Seattle, WA*. (Poster, Feb 2015).

- [3] “HIV/Syphilis Risk and Testing Among Transgender Individuals in China.” *18th International Union Against Sexually Transmitted Infections - Asia-Pacific Conference*, Bangkok, Thailand. (Poster, Nov 2014).
- [2] “An Online Survey of HIV Self-testing among online MSM in China.” *20th International AIDS Conference, Melbourne, Australia*. (Poster, July 2014).
- [1] “Spurring Innovation in Designing HIV Testing Programs: A Crowdsourcing Contest-based Approach.” *5th Annual CUGH Conference, Washington, DC*. (Poster, May 2014).

## TEACHING

**Causal Inference (STAT 293), Head Teaching Fellow**, Spring 2022

- Harvard Statistics Department’s graduate-level course on causal inference, focusing primarily on reading and discussing new papers (class size: 30)

**Applied Survival Analysis (BST 223), Teaching Fellow**, Spring 2022

- Teaching labs for the Harvard Biostatistics Department’s masters-level survival analysis course (class size: 70)

**Statistical Inference (BST 222), Head Teaching Fellow**, Fall 2019, 2020, 2021

- Head TF responsible for developing content and teaching labs for the masters’ level statistical inference course using Casella and Berger (class size: 70)

**PhD Qualifying Exam Summer Course, Co-Instructor**, Summer 2021

- Teaching content review and problem-solving in probability and inference for PhD students in preparation for the theory portion of the PhD qualifying exam (class size: 15)

**Advanced Topics in Clinical Trials (BST 238), Head Teaching Fellow**, Spring 2021

- Designing content and teaching select lectures for advanced topics in clinical trials, e.g., surrogate endpoints; interim analyses; group sequential methods; meta-analyses (class size: 20)

**Principles of Clinical Trials (BST 214), Head Teaching Fellow**, Spring 2020, 2021

- Revising content for a clinical trials course for clinicians and policymakers interested in the scientific, policy, and management aspects of clinical trials (class size: 70)

**Infectious Diseases (HNRS 396), Instructor**, Spring 2016

- One of eight undergraduates selected to build the curriculum and teach a course, titled “The Re-emergence of Infectious Diseases: From Cholera to Ebola and Beyond” (class size: 10)

**International Relations (GLBL 394), Teaching Assistant**, Spring 2015, 2016

- One of 15 students who led a weekly seminar-style recitation section of 300 undergraduates on international relations (recitation size: 20)

## SERVICE

**Harvard Biostatistics Student Committee, Co-President**, Aug 2021–Present

- Organizing town hall meetings and small group discussions to represent PhD student interests, including recruitment, qualifying exams, academics, student-life, and mental health

**Harvard Graduate Asian Baptist Student Koinonia, President**, Aug 2019–Present

- Organizing Bible study outreach and fellowship for Harvard and Boston-area graduate students

**Harvard DEIB Committee, Representative**, Aug 2020–Present

- Developing qualitative focus groups and quantitative surveys to better understand how the Harvard Biostatistics Department can become more diverse, inclusive, and equitable
- Spearheading a new mentorship program connecting underrepresented minorities with mentors

**Morehead Cain Foundation, Selections Interviewer**, 2018–Present

- Interviewing and evaluating high school applicants for the nation’s first merit scholarship

**Rhodes-Schwarzman Orientation, Facilitator**, 2019–Present

- Facilitating the *Leading Lives* workshop for incoming and outgoing Schwarzman Scholars

**Harvard Graduate Student Council, Representative**, Sep 2018–May 2021

- Evaluating funding proposals for GSAS conferences and activities

**Carolina Collective Initiative, Steering Committee**, May–Aug 2020

- Organized an open call and judged ideas for the reopening of UNC campus during COVID-19

**Cambridge Judge Teaching Committee, Representative**, Jan–June 2018

- Assessed student and professor feedback for courses at Cambridge Judge Business School and developed a guidance for improving research programs

**Journal of Schwarzman College, Co-Founder and Editor**, Sep 2016–July 2017

- Established Schwarzman College's first journal aggregating global perspectives on China and developed a framework for a quarterly print publication

**Tsinghua Graduate Student Union, Representative**, Aug 2016–July 2017

- Translated over 300 museum exhibit labels for the Tsinghua University Art Museum
- Voice-over for Xinhua Net's explanatory video of China's Two Sessions political conference

## REFEREE

*AIDS Care**Biometrics**Biostatistics**BMC Public Health**BMJ Open**Global Public Health**Scientific Reports**Sexually Transmitted Infections*

## SKILLS

**Languages & Software**

- Native fluency in English and Mandarin Chinese
- R, SAS, Python (NetworkX), MatLab

**Athletic Activities**

- Former top-ranked junior golf player in the US
- American Junior Golf Association All-Star
- Completed a US Army Special Forces Selections and Assessment training course