

# EMMA E. MCGEE

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## RESEARCH INTERESTS

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Causal inference, high-dimensional healthcare data, epidemiologic methods, biostatistics, comparative effectiveness research, precision medicine, machine learning, cancer, health disparities

## EDUCATION

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- Ph.D. Population Health Sciences – Epidemiology** 2024  
Harvard University, Boston, MA, USA (expected)  
*Concentrations:* Biostatistics and Cancer Epidemiology  
*Thesis:* Identifying effective interventions for cancer survivors using causal inference methods and high-dimensional data (*working title*)  
*Thesis Committee:* Miguel Hernán (Chair), A. Heather Eliassen, Barbra Dickerman  
GPA: 4.0/4.0
- M.S. Epidemiology** 2020  
Harvard T.H. Chan School of Public Health, Boston, MA, USA  
GPA: 4.0/4.0
- B.A. Social Research and Public Policy, Summa Cum Laude** 2015  
New York University Abu Dhabi, Abu Dhabi, United Arab Emirates (UAE)  
*Minor:* Literature  
GPA: 3.99/4.0

## RESEARCH EXPERIENCE

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- Researcher** 2021 – Present  
CAUSALab, Harvard T.H. Chan School of Public Health, Boston, MA, USA
- Research Associate** 2018 – Present  
Channing Division of Network Medicine, Brigham and Women’s Hospital, Boston, MA, USA
- Cancer Research Training Award Fellow** 2017 – 2018  
National Cancer Institute, National Institutes of Health (NIH), Rockville, MD, USA
- Research Assistant in Cancer Epidemiology** 2015 – 2017  
Pontificia Universidad Católica de Chile, Santiago, Chile
- Public Health Consultant** 2015 – 2017  
Multiple organizations, Santiago, Chile
- Undergraduate Investigator** 2014 – 2015  
New York University School of Medicine, NY, USA, New York University Abu Dhabi, Abu Dhabi, UAE
- Epidemiologic Research Assistant** 2014  
Pontificia Universidad Católica de Chile, Santiago, Chile

## PUBLICATIONS

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### Working Papers

1. **McGee EE**, Hernán MA, Giovannucci E, Mucci LA, Willett WC, Chiu YH, Eliassen AH, Dickerman BA. Methodological challenges in estimating the long-term effects of lifestyle interventions for cancer survivors.
2. **McGee EE**, Zeleznik OA, Balasubramanian R, Hu J, Kraft P, Rosner BA, Wactawski-Wende J, Williams DR, Clish CB, Avilla-Pacheco J, Willett WC, Rexrode KM, Tamimi RM, Eliassen AH. Differences in metabolomic profiles between Black and White women: Analyses from two prospective cohorts.

### Journal Articles

1. Koshiol J, Van De Wyngard V, **McGee EE**, Cook P, Pfeiffer RM, Mardones N, Medina K, Olivo V, Petit K, Jackson SS, Paredes F, Sanchez R, Huidobro A, Villaseca M, Bellolio E, Losada H, Roa JC, Hildesheim A, Araya JC, Ferreccio C. The Chile Biliary Longitudinal Study (Chile BiLS): a gallstone cohort. *American Journal of Epidemiology*. 2021;190(2):196-206.
2. **McGee EE**, Kim CH, Wang M, Spiegelman D, Stover DG, Heng YJ, Collins LC, Baker GM, Farvid MS, Schedin P, Jindal S, Tamimi RM, Eliassen AH. Erythrocyte membrane fatty acids and breast cancer risk by tumor tissue expression of immuno-inflammatory markers and fatty acid synthase. *Breast Cancer Research*. 2020;22(1):78.
3. **McGee EE**, Koshiol J. Comments on “Should we consider gallbladder cancer a new smoking-related cancer? A comprehensive meta-analysis focused on dose-response relationships” [Letter]. *International Journal of Cancer*. 2020;147(2):593-594.
4. Kotsopoulos J, **McGee EE**, Lozano-Esparza S, Garber JE, Ligibel JA, Collins LC, Polyak K, Brown MA, Narod SA, Tamimi RM, Eliassen AH. Premenopausal plasma osteoprotegerin and breast cancer risk: a case-control analysis nested within the Nurses’ Health Study II. *Cancer Epidemiology, Biomarkers & Prevention*. 2020;29(6):1264-1270.
5. Lee MH, Gao YT, Huang YH, **McGee EE**, Lam T, Wang B, Shen MC, Rashid A, Pfeiffer RM, Hsing AW, Koshiol J. A metallomic approach to assess associations of serum metal levels with gallstones and gallbladder cancer. *Hepatology*. 2020;71(3):917-928.
6. **McGee EE**, Jackson SS, Petrick JP, Van Dyke AL, Adami HO, Albanes D, Andreotti G, Beane-Freeman LE, Berrington de González A, Buring JE, Chan AT, Chen Y, Fraser GE, Freedman ND, Gao YT, Gapstur SM, Gaziano JM, Giles GG, Grant EJ, Grodstein F, Hartge P, Jenab M, Kitahara CM, Knutsen SF, Koh WP, Larsson SC, Lee IM, Liao LM, Luo J, Milne RL, Monroe KR, Neuhaus ML, O’Brien KM, Peters U, Poynter JN, Purdue MP, Robien K, Sandler DP, Sawada N, Schairer C, Sesso HD, Simon TG, Sinha R, Stolzenberg-Solomon R, Tsugane S, Wang R, Weiderpass E, Weinstein SJ, White E, Wolk A, Yuan JM, Zeleniuch-Jacquotte A, Zhang X, Zhu B, McGlynn KA, Campbell PT, Koshiol J. Smoking, alcohol, and biliary tract cancer risk: a pooling project of 26 prospective studies. *Journal of the National Cancer Institute*. 2019;111(12):1263-1278.
7. **McGee EE**, Kiblawi R, Playdon MC, Eliassen AH. Nutritional metabolomics in cancer epidemiology: current trends, challenges, and future directions. *Current Nutrition Reports*. 2019;8(3):187-201.
8. Jackson SS, Van Dyke AL, Zhu B, Pfeiffer RM, Petrick JL, Adami HO, Albanes D, Andreotti G, Beane-Freeman LE, Berrington de González A, Buring JE, Chan AT, Chen Y, Fraser GE, Freedman ND, Gao YT, Gapstur SM, Gaziano JM, Giles GG, Grant EJ, Grodstein F, Hartge P, Jenab M, Kitahara CM, Knutsen SF, Koh WP, Larsson SC, Lee IM, Liao LM, Luo J, **McGee EE**, Milne RL, Monroe KR, Neuhaus ML, O’Brien KM, Peters U, Poynter JN, Purdue MP, Robien K, Sandler DP, Sawada N, Schairer C, Sesso HD, Simon TG, Sinha R, Stolzenberg-Solomon R, Tsugane S, Wang R, Weiderpass E, Weinstein SJ, White E, Wolk A, Yuan JM, Zeleniuch-Jacquotte A, Zhang X, McGlynn KA, Campbell PT, Koshiol J. Anthropometric risk factors for cancers of the biliary tract in the biliary tract cancers pooling project. *Cancer Research*. 2019;79(15):3973-3982.

## Emma E. McGee

- Echeverría G, Dussallant C, **McGee EE**, Mena C, Nitsche MP, Urquiaga I, Bitran M, Pedrals N, Rigotti A. Promoting and implementing the Mediterranean diet in the Southern Hemisphere: the Chilean experience. *European Journal of Clinical Nutrition*. 2019;72(Suppl 1):38-46.
- McGee EE**, Castro FA, Engels EA, Freedman ND, Pfeiffer RM, Nogueira L, Stolzenberg-Solomon R, McGlynn KA, Hemminki K, Koshiol J. Associations between autoimmune conditions and hepatobiliary cancer risk among elderly US adults. *International Journal of Cancer*. 2019;144(4):707-717.
- Koshiol J, Bellolio E, Vivallo C, Cook P, Roa JC, **McGee EE**, Losada H, Van Dyke AL, Van De Wyngard V, Prado R, Villaseca M, Riquelme P, Acevedo J, Olivo V, Petit K, Hildesheim A, Medina K, Memis B, Adsay V, Ferreccio C, Araya JC. Distribution of dysplasia and cancer in the gallbladder: an analysis from a high cancer-risk population. *Human Pathology*. 2018;82:87-94.
- Liu Z, Kemp TJ, Gao YT, Corbel A, **McGee EE**, Wang B, Shen MC, Rashid A, Hsing AW, Hildesheim A, Pfeiffer RM, Pinto LA, Koshiol J. Association of circulating inflammation proteins and gallstone disease. *Journal of Gastroenterology and Hepatology*. 2018;33(11):1920-1924.
- Liu Z, Kemp TJ, Gao YT, Corbel A, **McGee EE**, Roa JC, Wang B, Araya JC, Shen MC, Rashid A, Hsing AW, Hildesheim A, C Ferreccio, Pfeiffer RM, Pinto LA, Koshiol J. Circulating levels of inflammatory proteins and survival in patients with gallbladder cancer. *Scientific Reports*. 2018;8(1):5671.
- McGee EE\***, Echeverría G\*, Urquiaga I, Jiménez P, D'Acuña S, Villarroel L, Velasco N, Leighton F, Rigotti A. Inverse associations between a locally validated Mediterranean diet index, overweight/obesity, and metabolic syndrome in Chilean adults. *Nutrients*. 2017;9(8):862.

\*Co-first author

### Book Chapters

- Echeverría G, Dussallant C, **McGee E**, Urquiaga I, Velasco N, Rigotti A (2017). Mediterranean diet beyond the Mediterranean basin: chronic disease prevention and treatment. In: *Mediterranean Identities – Environment, Society, Culture*. Edited by Fuerst-Bjelis B. Rijeka: InTech.

### Published Abstracts

- Koshiol J, Bellolio E, Vivallo C, Cook P, Roa J, **McGee EE**, Losada H, Van Dyke AL, Van De Wyngard V, Prado R, Villaseca M, Riquelme P, Acevedo J, Olivo V, Petit K, Hildesheim A, Medina K, Memis B, Adsay V, Ferreccio C, Araya JC. TU1526 - Distribution of dysplasia and cancer in the gallbladder: an analysis from a high cancer-risk population. *Gastroenterology*. 2018; 154(6):S-952.

## AWARDS AND HONORS

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### Academic Awards and Scholarships

<b>Presidential Scholarship</b> , Harvard University (\$18,000)	2020
<b>Dimitrios Trichopoulos Memorial Fund Award</b> , Harvard T.H. Chan School of Public Health (\$2,000)	2020
<b>Loan Relief Award</b> , Harvard T.H. Chan School of Public Health (\$27,000)	2018
<b>Summa Cum Laude</b> , New York University Abu Dhabi	2015
<b>University Honors Scholar/Founders' Day Award</b> , New York University	2015
<b>Rhodes Scholar Finalist</b> , US District 15, Rhodes Trust, University of Oxford	2014
<b>Full Scholarship</b> , New York University Abu Dhabi (\$250,000)	2011

### Scientific Awards

<b>Best Thesis Presentation</b> , Harvard T.H. Chan School of Public Health	2020
<b>Best Oral Presentation</b> , Dana-Farber/Harvard Cancer Center Celebration of Early Career Investigators in Cancer Research	2018
<b>Best Student/Fellow Poster</b> , National Cancer Institute Cohort Consortium Annual Meeting	2017
<b>Sponsored Delegate</b> , 16 <sup>th</sup> World Conference on Tobacco or Health	2015

## Emma E. McGee

### Teaching Awards

<b>Excellence in Teaching</b> , Epidemiology, Harvard T.H. Chan School of Public Health	2021 – 2022
<b>Bok Center Certificate of Distinction in Teaching</b> , Harvard University	2022
<b>Bok Center Certificate of Distinction in Teaching</b> , Harvard University	2021
<b>Certificate of Distinction in Teaching</b> , Epidemiology, Harvard T.H. Chan School of Public Health	2020 – 2021

### Artistic Awards

<b>Exhibiting Photographer: End of Year Showcase (Journeys)</b> , <i>New York University Abu Dhabi</i>	2012
<b>Exhibiting Filmmaker: Fall Art Showcase</b> , <i>New York University Abu Dhabi</i>	2012

## RESEARCH AND TRAVEL FUNDING

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### **Eric and Wendy Schmidt Center PhD Fellow** 2022 – Present

Selected to receive a competitive PhD fellowship recognizing graduate students doing exceptional work in causal inference, machine learning, and human biology. Funded 100% of graduate tuition, fees, and stipend for 2 years.

Role: PhD Fellow

Direct Costs: \$100,000

### **Brian McMahon Travel Award, Harvard T.H. Chan School of Public Health** 2023

Received funding to present work on estimating the long-term effects of lifestyle interventions for cancer survivors using target trial emulation and dynamic treatments at the Society for Epidemiologic Research Annual meeting.

Role: Graduate Student

Direct Costs: \$1,000

### **Brian McMahon Travel Award, Harvard T.H. Chan School of Public Health** 2022

Received funding to present work on Black-white racial disparities in metabolomics profiles at the Society for Epidemiologic Research Annual meeting.

Role: Graduate Student

Direct Costs: \$1,000

### **Rose Traveling Fellowship, Harvard T.H. Chan School of Public Health** 2019

Selected by the chairs of the Departments of Epidemiology and Biostatistics as a recipient of an international fellowship awarded to top postdocs, PhD students, and master's students. Proposal aimed to investigate body fat composition by computed tomography and subsequent breast cancer risk among adults in Iceland.

Role: Principal Investigator

Direct Costs: \$5,000

### **Capstone Research Grant, New York University Abu Dhabi** 2015

Received funding to support a study on water pipe tobacco smoking patterns in Abu Dhabi. Research included a survey administered to a random sample of 4,500 students, focus groups, and interviews.

Role: Undergraduate Investigator

Direct Costs: \$1,000

### **Summer Research Grant, New York University Abu Dhabi** 2014

Supported by an undergraduate research grant to investigate co-factors associated with *Helicobacter pylori* infection and gastric cancer risk as part of a World Health Organization study located in Chile.

Role: Undergraduate Investigator

Direct Costs: \$5,000

Direct costs are rounded to the nearest \$1,000 US dollar.

PRESENTATIONS

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<b>Invited Oral Presentations</b>	<b>Estimating the Long-Term Effects of Lifestyle Interventions for Cancer Survivors Using Target Trial Emulation and Dynamic Treatment Strategies</b> Society for Epidemiologic Research (SER) Annual Meeting, Portland, OR, USA	2023
	<b>Methodological Challenges in Estimating the Long-Term Effects of Lifestyle Interventions for Cancer Survivors</b> Dana-Farber/Harvard Cancer Center Celebration of Early Career Investigators in Cancer Research, Boston, MA, USA	2023
	<b>Identifying Effective Interventions for Cancer Survivors Using Causal Inference Methods and High-Dimensional Data</b> Population Health Sciences Research Talk, Harvard T.H. Chan School of Public Health, Boston, MA, USA	2022
	<b>Disparities in Metabolomic Profiles Between Black and White Women: Findings from Two Prospective Cohorts</b> Metabolomics Working Group, Channing Division of Network Medicine, Brigham and Women's Hospital, Boston, MA, USA	2022
	<b>Racial Differences in Metabolomic Profiles</b> Metabolomics Working Group, Channing Division of Network Medicine, Brigham and Women's Hospital, Boston, MA, USA	2020
	<b>Erythrocyte Membrane Fatty Acids and Breast Cancer Risk by Tumor Tissue Expression of Immuno-Inflammatory Markers and Fatty Acid Synthase</b> Dana-Farber/Harvard Cancer Center Celebration of Early Career Investigators in Cancer Research, Boston, MA, USA	2019
	<b>Plasma Osteoprotegerin and Breast Cancer Risk: A Nested Case-control Study Within the Nurses' Health Study II</b> Dana-Farber/Harvard Cancer Center Breast and Gynecologic Cancer Symposium, Boston, MA, USA	2019
	<b>Nutritional Metabolomics in Cancer Epidemiology</b> Breast Cancer Working Group, Channing Division of Network Medicine, Brigham and Women's Hospital, Boston, MA, USA	2019
	<b>Cigarette Smoking, Alcohol Consumption, and Biliary Tract Cancer Risk: A Pooling Project of 26 Prospective Studies</b> Dana-Farber/Harvard Cancer Center Celebration of Early Career Investigators in Cancer Research, Boston, MA, USA	2018
	<b>Hepatobiliary Cancer Risk Among Elderly US Adults with a History of Autoimmune Disease: A Registry-Based Case-control Study</b> National Cancer Institute, Infections and Immunoepidemiology Branch, Rockville, MD, USA	2018
	<b>Managing Requests for Large Data Projects in REDCap</b> REDCapCon, New York, NY, USA	2017
	<b>Experience in Electronic Data Capture for Cohorts: MAUCO and Chile BiLS</b>	2016

## Emma E. McGee

(contributed), Chilean Symposium on Health Informatics, Santiago, Chile

<b>Poster Presentations</b>	<b>Precision Medicine, Healthy Equity, and Causal Mediation: An Application to Metabolomic Profiles Among Black and White Women</b> Eric and Wendy Schmidt Center, Broad Institute of MIT and Harvard, Boston, MA, USA	2023
	<b>Disparities in Metabolomic Profiles Between Black and White Women</b> Society for Epidemiologic Research (SER) Annual Meeting, Chicago, IL, USA	2022
	<b>Erythrocyte Membrane Fatty Acids and Breast Cancer Risk by Tumor Tissue Expression of Immuno-Inflammatory Markers and Fatty Acid Synthase</b> Dana-Farber/Harvard Cancer Center Cancer Risk, Prevention, and Early Detection Symposium, Boston, MA, USA	2019
	<b>Plasma Osteoprotegerin and Breast Cancer Risk: A Nested Case-control Study Within the Nurses' Health Study II</b> Harvard T.H. Chan School of Public Health Poster Day, Boston, MA, USA	2019
	<b>The Chile Biliary Longitudinal Study (Chile BiLS): A Cohort Profile</b> Society for Epidemiologic Research (SER) Annual Meeting, Baltimore, MD, USA	2018
	<b>Highlights of Findings from the Biliary Tract Cancers Pooling Project (BiTCaPP)</b> National Cancer Institute Cohort Consortium Annual Meeting, Rockville, MD, USA	2017
	<b>The Chile Biliary Longitudinal Study (Chile BiLS): A Cohort Study Protocol</b> Advanced Center for Chronic Diseases (ACCDiS) Cancer Spring Symposium, Santiago, Chile	2016

## TEACHING

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<b>Course: Target Trial Emulation. Role: Curriculum Fellow and Head Teaching Fellow</b> CAUSALab, Harvard T.H. Chan School of Public Health, Boston, MA, USA	2022 – Present
Leading content development for a course providing hands-on training in causal inference from healthcare databases for ~100 participants from industry, academia, and government. Teaching target trial emulation, causal inference, estimation of effects in randomized trials and observational emulations, g-methods, competing events, and methods to handle and assess potential biases. <u>Instructors:</u> Miguel Hernán, Barbra Dickerman, Joy Shi, Sonja Swanson	
<b>Exam: Doctoral Qualifying Exam in Epidemiology. Role: Tutor</b> Harvard T.H. Chan School of Public Health, Boston, MA, USA	2023
Designed materials and taught 1:1 sessions on advanced quantitative methods for the doctoral qualifying exams in epidemiology and other population health sciences.	
<b>Course: Quantitative Research Methods in Population Health Sciences. Role: Teaching Fellow</b> Harvard University Graduate School of Arts and Sciences, Boston, MA, USA	2021 – 2022
Developed content, wrote problem sets and exams, and led lab sessions for a year-long course for ~40 PhD students. Taught maximum likelihood estimation, generalized linear models, survival analysis, g-methods, sensitivity analyses, instrumental variables, missing data, meta-analysis, etc. <u>Instructors:</u> Tyler VanderWeele, Issa Dahabreh, David Canning, Jarvis Chen	

## Emma E. McGee

**Course: Principles of Biostatistics and Fundamentals of Epidemiology. Role: Tutor** 2021 – 2022  
Harvard Medical School, Office for Diversity Inclusion and Community Partnership, Boston, MA, USA

Provided individualized instruction and tutoring in biostatistics and epidemiology for 7 MD/DDS fellows selected for Harvard's Commonwealth Fund Fellowship in Minority Health Policy.

Instructors: Albert Hofman, Stefania Papatheodorou, Marcia Testa

**Course: Models for Causal Inference. Role: Teaching Fellow** 2020 – 2021  
Harvard T.H. Chan School of Public Health, Boston, MA, USA

Led weekly lab sessions for a course including ~70 PhD and master's students. Taught g-method for causal inference, instrumental variable estimation, propensity scores, and other methods.

Instructors: Miguel Hernán, Barbra Dickerman

**Course: Core Principles of Biostatistics and Epidemiology. Role: Head Teaching Fellow** 2021  
Harvard T.H. Chan School of Public Health, Boston, MA, USA

Led a team of 16 teaching fellows in the instruction of ~180 PhD and master's students from 10 different academic programs. Taught epidemiologic methods, study design, and analyses.

Instructors: Kimberlee Gauvreau, Elizabeth Mostofsky

## MENTORSHIP

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**Mentee: Gabriella Forchion**, Undergraduate Student, Howard University 2021

Role: Mentor and direct research supervisor for a full-time summer research position

Program: CURE Program, Dana-Farber/Harvard Cancer Center, aimed at increasing diversity in cancer research

## PEER REVIEW

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**Journals:** *JAMA Internal Medicine; British Journal of Cancer; International Journal of Cancer; Cancer Epidemiology, Biomarkers, & Prevention*

**Conference Abstracts:** *Society for Epidemiologic Research (SER) Annual Meeting*

## SERVICE AND LEADERSHIP

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**President, Epidemiologic Methods Journal Club** 2021 – Present  
Harvard T.H. Chan School of Public Health, Boston, MA, USA

**Volunteer, Contact Tracing and Vaccine Outreach (Spanish and English)** 2020 – 2021  
COVID-19 Academic Public Health Volunteer Corps (APHVC) and GOTVax, Boston, MA, USA

**Co-Leader, Master's Program Committee** 2019 – 2020  
Harvard T.H. Chan School of Public Health, Boston, MA, USA

**Member, Epidemiology Student Advisory Committee** 2018 – 2020  
Harvard T.H. Chan School of Public Health, Boston, MA, USA

**Member, Harvard Chan Student Club on CANcer: Learn, Interact, Translate (CAN-LIT)** 2018 – 2020  
Harvard T.H. Chan School of Public Health, Boston, MA, USA

**Volunteer, Arabic Language Program** 2018

## Emma E. McGee

Kalimah Programs for Arabic Language, Culture, and Arts, Rockville, MD, USA

**Member, NIH Academy on Health Disparities** 2017 – 2018  
NIH, Bethesda, MD, USA

**Co-Leader, Community Outreach and Service Committee** 2017 – 2018  
DCEG Fellows Committee, National Cancer Institute, NIH, Rockville, MD, USA

**Manuscript Editor** 2017 – 2018  
DCEG Fellows Editorial Board, National Cancer Institute, NIH, Rockville, MD, USA

**Board of Directors and Executive Committee** 2014 – 2016  
QINE Association for Promoting Education Quality (QAPEQ), Abu Dhabi, UAE

**Co-Chair** 2014 – 2015  
Public Health Think Tank Conference, New York University Abu Dhabi, Abu Dhabi, UAE

## PROFESSIONAL SOCIETIES

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**Society for Epidemiologic Research (SER), Member** 2021 – Present  
**American Association for Cancer Research (AACR), Associate Member** 2019 – Present

## SELECTION OF RELEVANT GRADUATE COURSEWORK

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### **Causal Inference and Epidemiologic Methods**

Models for Causal Inference  
Causal Mediation and Interaction  
Advanced Epidemiologic Methods  
Principles of Clinical Trials  
Advanced Topics in Case-Control and Cohort Studies  
Measurement Error and Misclassification for Epidemiologists  
Database Analytics in Pharmacoepidemiology  
Study Design in Epidemiologic Research  
Epidemiologic Methods Development

### **Statistics and Machine Learning**

Deep Learning for Biomedical Data  
Data Science II (*Deep Learning*)  
Quantitative Methods in Population Health Sciences  
Applied Regression for Clinical Research  
Applied Survival Analysis  
Applied Longitudinal Analysis  
Social and Biological Networks

### **Pathophysiology and Cancer**

Pathology for Epidemiologists  
Molecular Biology for Epidemiologists  
Biomarkers in Epidemiology Research  
Pathophysiology of Disease  
Human Physiology  
Epidemiology of Cancer



## TECHNICAL SKILLS

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<b>Statistical Software and Markup</b>	R, SAS, Python, Stata Markdown, LATEX
<b>Data Analysis, Epidemiologic Methods, and Statistics</b>	G-methods for causal inference (e.g., parametric g-formula, inverse probability weighting, marginal structural models) Graphical causal models (DAGs, SWIGs) Target trial emulation of dynamic and static treatment strategies Analysis of administrative healthcare claims data Analysis of longitudinal cohort and case-control studies Integration of molecular biomarker data into epidemiologic research Sensitivity analyses Literature reviews Meta-analysis
<b>Teaching</b>	Didactic instruction in causal inference, epidemiology, and biostatistics Development of course materials (e.g., lectures, exercises, statistical code, problem sets, exams, syllabi) Statistical coding instruction in R, SAS, and Stata
<b>Management and Implementation of International Field Studies</b>	Staff training and supervision Questionnaire design, testing, and implementation Development of standard operating procedures and study protocols Quality control of survey and biological data
<b>Electronic Databases and Surveys</b>	REDCap Qualtrics

## LANGUAGES

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**English** (fluent), **Spanish** (fluent), **Arabic** (intermediate)