

# Amin Bemanian, MD PhD

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## Education

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### **Medical College of Wisconsin, Medical Scientist Training Program**

**Medical Doctorate**, May 2020

Milwaukee, WI

### **Medical College of Wisconsin, Medical Scientist Training Program**

**Doctor of Philosophy in Public and Community Health**, September 2018

Milwaukee, WI

### **Washington University in St. Louis**

**Bachelor of Science and Engineering in Biomedical Engineering**, May 2013

Magna Cum Laude, Minors in Computer Science and Public Health

St. Louis, MO

## Clinical Experience

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### **University of Washington/Seattle Children's Hospital**

**Pediatric Infectious Disease Fellowship**

*July 2023-June 2026*

### **University of Washington/Seattle Children's Hospital**

**Pediatric Residency, Research Track**

*July 2020-June 2023*

## Research Experience

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### **Spatial and Social Patterns of SARS-CoV-2 Transmission Patterns Using Identical Pathogen Sequences**

**Fred Hutchinson Cancer Center/University of Washington**

*July 1 2024-Ongoing*

Research Mentor: Trevor Bedford, PhD

### **Pediatric COVID-19 Vaccine Accessibility**

**University of Washington/Institute for Health Metrics and Evaluation**

*July 2021-December 2024*

Research Mentor: Jonathan F. Mosser, MD, MPH

### **COVID-19 Spatiotemporal Epidemiology Team**

**Medical College of Wisconsin/Milwaukee County Health Department**

*March 2020-June 2020*

Project Leads: Kirsten M. M. Beyer, PhD, MPH, MS; Mallory O'Brien, PhD; Darren Rausch, MS

**Liver Cancer Dissertation Research**  
**Medical College of Wisconsin**

*June 2016 – June 2020*

Research Mentor: Kirsten M. M. Beyer, PhD, MPH, MS

Committee: Purushottam W. Laud, PhD; Laura D. Cassidy, MS PhD; Raphael Fraser, PhD; Kia Saeian, MS, MD, FACG

**Racial Segregation and HMDA Index and Cancer Disparities**  
**Medical College of Wisconsin**

*June 2016 – July 2017*

PI: Kirsten M. M. Beyer, PhD, MPH, MS

**Undergraduate Research Assistant**  
**Washington University in St. Louis; Center for Genome Sciences**

*March 2010 – May 2013*

Research Mentor: Michael R. Brent, PhD

**Grants Awarded**

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**NCI F30 Fellowship: 5F30CA216947-01A1**

*February 2018 – May 2020*

**MCW CTSI TL1 Grant: 5TL1TR001437-03**

*July 2017 – February 2018*

**Publications and Presentations**

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**Journal Articles**

**Bemanian, A.** & Mosser, J. F. (2024). “Investigating the Spatial Accessibility and Coverage of the Pediatric COVID-19 Vaccine: An Ecologic Study of Regional Health Data.” *Vaccines*. 12(5), 545

Canales, B., Laud P.W., Tarima, S., Zhou, Y., Bikomeye, J.C., McGinley, E.C., Yen, T.W.F, **Bemanian, A.**, Beyer, K.M.M. (2023). “Isolation and survival: The impact of local and MSA isolation on survival among non-Hispanic Black women diagnosed with breast cancer in the United States using a SEER-Medicare cohort.” *Health & Place*. 83, 103090

**Bemanian, A.** (2021). “Confronting Racism from Patients.” *Narrative Inquiry in Bioethics*, 11(3), pp. 254–256.

**Bemanian A.**, Cassidy L. D., Fraser R., Laud P.W., Saeian K., Beyer K. M. M. (2021). “Ecologic Study of Variability in Relationship Between Liver Cancer Mortality and Racial Residential Segregation.” *International Journal of Environmental Research and Public Health*. 18(18) pp. 9732

**Bemanian A.**, Ahn K. W., O'Brien M, Rausch D. J., Weston B., Beyer K. M. M. (2020) "Investigating the Trajectory of the COVID-19 Outbreak in Milwaukee County and Projected Effects of Relaxed Distancing" *Wisconsin Medical Journal*. 119(2) pp. 84-90

**Bemanian A.**, Cassidy L. D., Fraser R., Laud P.W., Saeian K., Beyer K. M. M. (2019). "Racial Disparities of Liver Cancer Mortality in Wisconsin." *Cancer Causes & Control*. 30 pp. 1277-1282

**Bemanian A.** & Beyer K. M. M. (2017). "Measures Matter: The Local Exposure/Isolation (LEx/Is) Metric and Relationships Between Local Level Segregation and Breast Cancer Survival." *Cancer Epidemiology Biomarkers and Prevention*. 26(4) pp. 516-524

Zhou Y., **Bemanian A.**, Beyer K.M.M. (2017). "Housing Discrimination, Residential Racial Segregation, and Colorectal Cancer Survival in Southeastern Wisconsin." *Cancer Epidemiology Biomarkers & Prevention*. 26(4) pp. 561-568

Beyer K. M. M., Zhou Y., Matthews K., **Bemanian, A.**, Laud, P. W., Nattinger, A. B. (2016). New spatially continuous indices of redlining and racial bias in mortgage lending: links to survival after breast cancer diagnosis and implications for health disparities research. *Health & Place*. 40(1) pp. 34-43

Beyer K. M. M., Zhou Y., Matthews K., Hoormann K., **Bemanian A.**, Laud P. W., Nattinger, A. B. (2016). Breast and Colorectal Cancer Survival Disparities in Southeastern Wisconsin. *Wisconsin Medical Journal*. 115(1) pp. 17-22

Cohen K.E., Scanlon M.C., **Bemanian A.**, Schindler C.A. (2017). Pediatric skin failure. *Am J Crit Care*. 25(4) pp. 320-328

### **Book Chapters**

Beyer, K. M. M., Young, S., & **Bemanian, A.** (2019). Persistent Racial Disparities in Breast Cancer Mortality Between Black and White Women: What is the Role for Structural Racism?. In *Geospatial Approaches to Energy Balance and Breast Cancer* (pp. 361-378). Springer, Cham.

### **Presentations/Conference Abstracts**

**Bemanian A.**, Mosser J. (2024). Investigating the Relationship Between COVID-19 Vaccine Accessibility and Coverage in Seattle and King County. In: IDWeek. Los Angeles, CA.

**Bemanian A.**, Mosser J. (2022). Differences in Transportation Access to Medical Visits. In: APHA National Meeting. Boston, MA.

**Bemanian A.**, Saeian K, Cassidy LD, Beyer KMM. (2019). Investigating Biomedical Pathways Mediating Racial and Socioeconomic Disparities Of Liver Cancer: Retrospective Analysis Of Chronic Liver Disease Patients. In: The Liver Meeting. Boston, MA.

**Bemanian A.**, Saeian K, Cassidy LD, Fraser R, Laud PW, Beyer KMM (2019) Survival Differences in Liver Cancer Due to Patient Race and Racial Residential Segregation. In: International Liver Cancer Association 13th Annual Conference. Chicago, IL.

**Bemanian A. & Beyer K.M.M. (2019).** Racial Residential Segregation and Liver Cancer Outcomes. In: Invited Talk, Clinical Translational Science Institute of Southeast Wisconsin. Milwaukee, WI.

**Bemanian A. & Beyer K.M.M. (2018).** Exploration of the Spatial Distribution of Liver Cancer Mortality in Wisconsin. In: MCW Graduate Student Association 2<sup>nd</sup> Annual Symposium. Milwaukee, WI.

**Bemanian A. & Beyer K.M.M. (2017).** Exploration of the Spatial Distribution of Liver Cancer Mortality in Wisconsin. In: Int Med Geogr Symp. Angers, France.

**Bemanian A. & Beyer K.M.M. (2017).** Spatial Relationship Between Racial Residential Segregation in Liver Cancer Mortality. In: Milwaukee Reg Res Forum. Milwaukee, WI.

**Bemanian A. & Beyer K.M.M. (2017).** Effect of Survey Error on an Ecological Study of Liver Cancer Mortality. In: MCW Graduate School 27<sup>th</sup> Annual Poster Session. Milwaukee, WI.

**Bemanian A., Zhou Y., Beyer K.M.M. (2016).** Breast Cancer and Local Residential Segregation in the Milwaukee Metropolitan Area. In: 144<sup>th</sup> APHA 2016 Annual Meeting & Exposition, Denver, CO

**Bemanian A., Zhou Y., Beyer K.M.M. (2016).** Effects of Residential Racial Segregation on Racial Disparities in Colorectal Cancer Survival and Late-Stage Diagnosis. In Conference on Geospatial Approaches to Cancer Control and Population Sciences, Bethesda, MD.

Beyer K.M.M., Zhou Y., **Bemanian A. (2016).** What Explains Geographic Variation in the Size of Racial Cancer Mortality Disparities Across US Metropolitan Areas? In: Conference on Geospatial Approaches to Cancer Control and Population Sciences. Bethesda, MD.

Zhou Y., Beyer K.M.M., **Bemanian A. (2016).** Examining Colorectal Cancer Disparities in Southeastern MSAs of Wisconsin From a New Perspective of Residential Racial Segregation. In: Conference on Geospatial Approaches to Cancer Control and Population Sciences. Bethesda, MD

**Bemanian A., Beyer K. M. M., Zhou Y. (2016).** Breast Cancer Survival and Residential Segregation by Race and Ethnicity in Milwaukee. In MCW Cancer Center Research Retreat, Milwaukee, WI

**Bemanian A. & Beyer K.M.M. (2015).** Quantification of segregation in southeastern Wisconsin as a marker for economic disadvantage. In 143<sup>rd</sup> APHA Annual Meeting and Exposition, Chicago, IL

Beyer K. M. M., Zhou Y., Matthews K., **Bemanian A.,** Laud P. W., Nattinger A. B. (2015). Cancer and Disparity in the Context of Residential Racial Segregation: Evidence from Southeastern Wisconsin. In Annual Meeting of the Association of American Geographers.

## Special Skills and Interests

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**Languages:** Native English; Native Persian speaker, basic reading and writing

**Programming:** Primarily worked in R and Python. Experience in MATLAB, Java, SAS, STATA, and JAGS. Comfortable working in Windows, UNIX, and macOS.