

## Chanmin Kim

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CONTACT INFORMATION	25-2, Sungkyunkwan-ro, Jongno-gu Seoul 03063, Korea	02-760-0495 chanmin.kim@skku.edu
RESEARCH INTERESTS	Bayesian nonparametric methods and Machine learning Causal modeling and Causal mechanism Policy Evaluation, Environmental statistics, and behavioral sciences	
CURRENT POSITION	<b>SungKyunKwan University</b> , Department of Statistics, Seoul, Korea <b>Assistant Professor</b> of Statistics,	Jan 2020 -
	<b>Boston University</b> , Department of Biostatistics, Boston <b>Adjunct Assistant Professor</b> of Biostatistics,	Jan 2020 -
EDUCATION / TRAINING	<b>Harvard University</b> , Department of Biostatistics, Boston, MA Research Associate & Postdoctoral Research Fellow July 2014 - Aug 2017 Project: <i>Developing Bayesian causal inference methods for evaluating air pollution regulatory policies.</i> Mentor: Corwin M. Zigler, Ph.D.  <b>University of Florida</b> , Gainesville, FL Ph.D., Statistics Aug 2013 Thesis: <i>Bayesian methods for inference on the causal effects of mediation.</i> Advisor: Michael J. Daniels, Sc.D.  <b>Columbia University in the City of New York</b> , New York, NY M.A., Statistics May 2008  <b>Sogang University</b> , Seoul, Korea B.B.A., B.A., <b>Business and History</b> (Double Major) Feb 2006 <i>Magna Cum Laude</i> the second highest GPA in the department.	
RESEARCH AND PROFESSIONAL EXPERIENCE	Assistant Professor Department of Biostatistics, Boston University, Boston, MA	Sep 2017 - Dec 2019
	Advisory Committee Hyundai Motor Group, Seoul, Korea	Nov 2020 - Feb 2021
	Postdoctoral Research Fellow Department of Integrative Biology, The University of Texas, Austin - Developed Bayesian nonparametric methods for causal mediation in various settings (single, multiple, or longitudinal mediators). Mentor: Michael J. Daniels, Sc.D.	Aug 2013 - Jul 2014
	Research Assistant Department of Statistics, University of Florida - Causal mediation analysis in the TOURS project (weight management trial) and the Rural LITE project. Supervisor: Michael J. Daniels, Sc.D.	Jan 2010 - Jul 2013
	Research Assistant Applied Statistics Center, Columbia University Supervisor: Andrew Gelman, Ph.D.	Jan 2007 - Dec 2007
	Employee, Samsung Electronics, South Korea	Jan 2006 - May 2006

- Worked at the HR headquarters of the Tele-Communication Business Division which is in charge of Samsung's cell phone business.

Internship, Bearing Point Consulting formerly KPMG Korea Jul 2004 - Aug 2004  
 - As a member of PMO, evaluated daily outputs for a project to construct a new banking system for Korean Exchange Bank (KBE). Worked with 600 IT experts.

## AWARDS

## HONORS

Mitchell Prize, honorable mention (2nd place), ISBA Jun 2020  
 - The Mitchell Prize is awarded in recognition of an "outstanding paper" that describes how a Bayesian analysis has solved an important applied problem. The Prize is jointly sponsored by the Section on Bayesian Statistical Science (SBSS) of the ASA, the International Society for Bayesian Analysis (ISBA), and the Mitchell Prize Founders' Committee.

ASA Biometrics Section Paper Award Aug 2017  
 - Invited to present the paper at the 2017 JSM

Winner (1st place), 2013 IASC data analysis competition Aug 2013  
 - Invited to present the result at the joint meeting of the IASC Satellite Conference for the 59th ISI WSC and the 8th Conference of the Asian regional section of the IASC, Seoul, Korea (22-23 August 2013)

Honorable Mention, NSF research day poster competition, UF Oct 2011

3rd Place, Human Consulting Group case competition, May 2003  
 NEMO Partners, South Korea

## TRAVEL AWARDS

Sackler Travel Award (granted by NSF) Mar 2015  
 for the Sackler Colloquium Drawing Causal Inference from Big Data, D.C.

Graduate Student Council (GSC) at UF May 2013  
 for 2013 Atlantic Causal Inference Conference, Boston, MA

College of Liberal Arts and Sciences (CLAS) at UF May 2013  
 for 2013 Atlantic Causal Inference Conference, Boston, MA

Boyd Harshbarger Travel Award (granted by NSF) Jun 2012  
 for SRCOS 2012 Summer Research Conference, GA

College of Liberal Arts and Sciences (CLAS) at UF May 2012  
 for 2012 Atlantic Causal Inference Conference, Baltimore, MD

Centre de recherches mathématiques (CRM) at University of Montreal May 2011  
 for Workshop on Causal Inference in Health Research, Canada

Graduate Student Council (GSC) at UF May 2011  
 for Workshop on Causal Inference in Health Research, Canada

## REFEREED

## JOURNAL

## PUBLICATIONS

## Publication in Statistical Methodology

Liu, X., **Kim, C.**, Han, Z., Lim, P., Roychoudhury, S., Fava, M., Doros, G.,  
 On treatment effect for the sequential parallel comparison design, to appear in  
*Statistics in Medicine*, 2022+.

**Kim, C.**, Lin, X., Nelson, K., Measuring Rater Bias in Diagnostic Tests with Ordinal Ratings, *Statistics in Medicine*, 40(17), 4014-4033, 2021.

**Kim, C.**, Henneman, L., Choirat, C. Zigler, C. M., Health Effects of Power Plant Emissions through Ambient Air Quality, *Journal of the Royal Statistical Society: Series A*, 183(4), 1677-1703, 2020.

**Kim, C.**, Daniels, M. J., Hogan, J. W., Choirat, C., Zigler, C. M. Bayesian Methods for Multiple Mediators: Relating Principal Stratification and Causal Mediation in the Analysis of Power Plant Emission Controls, *awarded ASA 2017 Biometrics section travel award; and awarded an honorable mention for the Mitchell Prize 2019, ISBA, The Annals of Applied Statistics*, 13(3), 1927-1956, 2019.

**Kim, C.**, Deviance Information Criteria for Mixtures of Distributions, *Communications in Statistics - Simulation and Computation*, 50(10), 2935-2948, 2021.

Liu, Y., **Kim, C.**, Wu, A. D., Gustafson, P., Zumbo, B. D. Investigating Causal Differential Item Functioning (DIF) via Propensity Scores Methods, *Journal of Modern Applied Statistical Methods*, 18(1), 2-26, 2019.

**Kim, C.**, Daniels, M. J., Li, Y., Milbury, K., Cohen, L., A Bayesian Semiparametric Latent Variable Approach to Causal Mediation, *Statistics in Medicine*, 37(7), 1149-1161, 2018.

**Kim, C.**, Daniels, M.J., Marcus, B., Roy, J., A framework for Bayesian nonparametric inference for causal effects of mediation, *Biometrics*, 73(2), 401-409, 2017.

Zigler, C. M., **Kim, C.**, Choirat, C. Hansen, J. B., Wang, Y., Hund, L., Samet, J., King, G., Dominici, F., Causal Inference Methods for Estimating Long-Term Health Effects of Air Quality Regulations, *Health Effects Institute Research Report*, 187, 5-49, 2016 (peer-reviewed).

Daniels, M. J., Roy, J., **Kim, C.**, Hogan, J. W., Perri, M., Bayesian Inference for the Causal Effects of Mediation, *Biometrics*, 68(4), 1028-1036, 2012.

### **Collaborative Publications**

Peer, K., Adams W. G., Legler, A., Sandel, M., Levy, J., Boynton-Jarrett, R., **Kim, C.**, Leibler, J. H., Fabian, M. P., Developing and evaluating a pediatric asthma severity computable phenotype derived from electronic health records, *The Journal of Allergy and Clinical Immunology*, 147(6), 2162-2170, 2021.

Nguyen, M., Feeney, T., **Kim, C.**, Drake, T., Mitchell, S., Bednarczyk, M., Sanchez, S., Patient-Level Factors Influencing Palliative Care Consultation at a Safety-Net Urban Hospital, *American Journal of Hospice and Palliative Medicine*, 38(11), 1299-1307, 2021.

Liu, Y., Beliveau, A., Besche, H., Wu, A., Zhang, X., Stefan, M., Gutlerner, J., **Kim, C.**, Bayesian Mixed Effects Model and Data Visualization for Understanding Item Response Time and Response Order in Open Online Assessment, *Frontiers in Education, section Assessment, Testing and Applied Measurement*, 5, 274, 2021.

Nguyen, M., Feeney, T., **Kim, C.**, Drake, T., Mitchell, S., Bednarczyk, M., Sanchez,

S., Differential Utilization of Palliative Care Consultation between Medical and Surgical Services, *American Journal of Hospice and Palliative Medicine*, 37(4), 250-257, 2020.

Mahalingaiah, S., Lane, K.J., **Kim, C.**, Cheng, J., Hart, J., Impacts of Air Pollution on Gynecologic Disease: Infertility, Menstrual Irregularity, Uterine Fibroids, and Endometriosis: a Systematic Review and Commentary, *Current Epidemiology Reports*, 5(3), 197-204, 2018.

Zhang, Z., Zheng, C., **Kim, C.**, Van Poucke, S., Lin, S., Lan, P., Causal Mediation Analysis in the Context of Clinical Research, *Annals of Translational Medicine*, 4(21), 1-20, 2016.

Perri, M., Limacher, M., von Castel-Roberts, K., Daniels, M., Durning, P., Janicke, D., Bobroff, L., Radcliff, T., Milsom, V., **Kim, C.**, Martin, A., Comparative Effectiveness of Three Doses of Weight Loss Counseling: Two-Year Findings from the Rural LITE Trial, *Obesity*, 22, 2293-2300, 2014.

#### Manuscripts Submitted or Under Revision

**Kim, C.**, Li, Y., Xu, T., Liao, Z., Bayesian Nonparametric Method for Causal Mediation Analysis in Zero-inflated Data, under review.

**Kim, C.**, Tec, M., Zigler, C., Bayesian Nonparametric Adjustment of Confounding [[arXiv](#)], under review.

Peer, K., Adams W. G., Legler, A., Sandel, M., Levy, J., Boynton-Jarrett, R., **Kim, C.**, Leibler, J. H., Fabian, M. P., Beyond a reductionist approach to residential mobility definitions in the health literature: opportunities and challenges using electronic health record address data, submitted.

Lee, K.J., **Kim, C.**, Chen, R.B., Lee, K., Robust Probit Linear Mixed Models for Longitudinal Binary Data, under revision.

**Kim, C.**, Zigler, C. M., Daniels, M. J., Choirat, C., Roy, J. A., Bayesian Longitudinal Causal Inference in the Analysis of the Public Health Impact of Pollutant Emissions [[arXiv](#)].

**Kim, C.**, Bayesian Additive Regression Trees in Spatial Data Analysis with Sparse Observations, under revision.

Cummiskey, K., **Kim, C.**, Choirat, C., Schwartz, J., Zigler, C. A Source-Oriented Approach to Coal Combustion PM<sub>2.5</sub> Health Effects [[arXiv](#)], under revision.

Park, S., **Kim, C.** Comparison of Tree-based Ensemble Models, under revision.

#### PAPERS IN PREPARATION

**Kim, C.**, Hogan, J. W., Marcus, B., Daniels, M. J., A Framework for Causal Inference for Multiple Mediators, In preparation (draft available upon request).

**Kim, C.**, Nelson, K., Enhanced Method for Measuring Rater Bias in Diagnostic Tests with Ordinal Ratings, In preparation.

Koo, D., **Kim, C.**, Lee, K., A Bayesian Method for Multinomial Probit Model, In preparation.

Liu, X., Han, Z., **Kim, C.**, Doros, G., Assessing treatment effect for the sequential parallel comparison design via stratum-specific estimands when a non-responder criterion is not present, In preparation.

**Kim, C.**, Bayesian nonparametric methods for principal stratification analysis with high dimensional covariates, In preparation.

PACKAGE /  
SOFTWARE

**BNPMediation**, an R package. Implements Bayesian nonparametric methods to estimate the causal effects of mediation. Available in CRAN.

**BayesODT**, an R package. Implements Bayesian hierarchical model to measure rater bias for ordinal classification processes. Available in [lit777.github.io](https://github.com/lit777).

PRESENTATIONS

INVITED TALKS

Department of Statistics, Yonsei University, South Korea Dec 2021

Department of Statistics, Korea University, South Korea Nov 2021

Seminar on Causal Mediation Analysis, National Evidence-based Healthcare Collaborating Agency, Aug 2021

10th Bernoulli-IMS World Congress in Probability and Statistics, Seoul, Korea (Virtual), Jul 2021

63rd ISI World Statistics Congress, Hague (Virtual), Jul 2021

Seminar on Social Science Methods, Center of Politics and Communication, Seoul National University, Jun 2021

4th International Conference on Econometrics and Statistics (EcoSta 2021), Hong Kong (Virtual), Jun 2021

Working Group on Causal Inference and Machine Learning, Harvard University, May 2021

Spring Conference, The Korean Data & Information Science Society, May 2021

Invited Section for Bayesian Statistics, The Korean Statistical Society, Dec 2020

Department of Statistics, SungKyunKwan University, South Korea Oct 2020

Department of Statistics, Ewha University, South Korea Aug 2020

4th International Conference on Econometrics and Statistics, Seoul, Korea, Jul 2020 (postponed)

Bayesian Causal Inference Workshop, Ohio State University, OH (Cancelled) Jun 2019

Atlantic Causal Inference Conference, McGill University, Canada	May 2019
Institute for Computational and Experimental Research in Mathematics, Brown University, RI	Jan 2019
Graduate School of Future Strategy, KAIST, Daejeon, Korea	Aug 2018
2018 Joint Statistical Meeting, Vancouver, Canada	Aug 2018
The 3rd ISBA-EAC Conference , Seoul, Korea	Jul 2018
2018 ICSA China Conference with the Focus on Data Science, Qingdao, Shangdong, China	Jul 2018
2018 IISA International Conference on Statistics, Gainesville, FL	May 2018
Statistics and Probability Seminar Series, Boston University, MA	Apr 2018
Biostatistics Student Association (BSA) Seminar, Boston University, MA	Nov 2017
Global Health Research Seminar Series, Boston University, MA	Oct 2017
Environmental Statistics Seminar, Harvard University, MA	May 2017
The 31st New England Statistics Symposium, Univ. of Connecticut, CT	Apr 2017
Department of Biostatistics, Boston University, MA	Feb 2017
Department of Biostatistics and Bioinformatics, Duke University, NC	Jan 2017
Department of Biostatistics, Indiana University, Indianapolis, IN	Jan 2017
Div. of Sleep and Circadian Disorders, Brigham and Women's Hospital	Nov 2016
P01 Retreat, Harvard University	Oct 2016
Department of Statistics, SungKyunKwan University, South Korea	Apr 2016
Environmental Statistics Seminar at Harvard Biostatistics	Sep 2015
2015 Atlantic Causal Inference Conference, Philadelphia, PA	May 2015
Department of Biostatistics, Harvard School of Public Health	Dec 2013
Joint meeting of the IASC satellite conference for the 59th ISI WSC and the 8th conference of the ARS of the IASC, South Korea	Aug 2013

#### TOPIC-CONTRIBUTED TALKS

2017 Joint Statistical Meeting, Baltimore, MD (Missed)	Aug 2017
- Biometrics Section Award Presentation : <i>Bayesian Methods for Multiple Intermediate Variables: Principal Stratification and Causal Mediation Analysis</i>	
2016 Joint Statistical Meeting, Chicago, IL	Aug 2016

2014 Joint Statistical Meeting, Boston, MA	Aug 2014
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CONTRIBUTED TALKS

10th World Congress in Probability and Statistics, Seoul (Virtual)	Jul 2021
2017 ENAR Meeting, DC	Mar 2017
2016 ENAR Meeting, Austin, TX	Mar 2016
P01 retreat at Harvard Biostatistics	Oct 2015
Bayesian Causal Inference Group Seminar at Harvard Biostatistics	Jun 2015
Bayesian Causal Inference Group Seminar at Harvard Biostatistics	Jan 2015
Bayesian Causal Inference Group Seminar at Harvard Biostatistics	Sep 2014
Acid Rain Program Group Seminar at Harvard	Sep 2014, Feb 2015
2015 ENAR Meeting, Miami, FL	Mar 2015
2014 ENAR Meeting, Baltimore, MD	Mar 2014
2013 Joint Statistical Meeting, Montreal, Canada	Aug 2013

POSTER PRESENTATIONS

2015 International Health Policy Statistics Conference, Providence, RI	Oct 2015
2015 Atlantic Causal Inference Conference, Philadelphia, PA	May 2015
2013 Atlantic Causal Inference Conference, Boston, MA	May 2013
2012 SRCOS Summer Research Conference, GA	Jun 2012
2012 Atlantic Causal Inference Conference, Baltimore, MD	May 2012
Workshop on Causal Inference and Graphical Models, Winter Workshop 2012, University of Florida	Jan 2012
NSF Research Day, University of Florida	Oct 2011
Workshop on Causal Inference in Health Research, CRM, University of Montreal, Canada	May 2011

PROFESSIONAL  
SERVICE

REVIEWER (Publons)

*Journal of American Statistical Association (theory and methods; applications and case studies), Biometrics, Statistics in Medicine, Bayesian Analysis, Journal of Royal Statistical Society: Series C, Journal of Causal Inference, Statistica Sinica, Annals of Applied Statistics, Biostatistics, Statistical Science, Epidemiologic Methods, BMJ Open, BMC Medical Research Methodology, Computational Statistics and Data*

*Analysis, The Canadian Journal of Statistics, Journal of Agricultural Biological and Environmental Statistics, BMC Public Health, WIREs Computational Statistics, The International Journal of Biostatistics, Statistical Methods and Applications, The Korean Journal of Applied Statistics, MRC grant proposal, HEI grant proposal*

#### PROFESSIONAL SOCIETY

Elected Member of ENAR Council for Emerging and New Statisticians. 2014 - 2016  
Members of ENAR, ASA, ISBA

#### CONFERENCE ORGANIZATION

**Session Organizer** : Invited Session at CMStatistics (2021), Invited Session at 2021 Fall Conference of KSS, Invited Session at ENAR (2019), Invited Session at JSM (2018), Invited Session at ACIC (2018), Topic-contributed sessions at JSM (2016, 2017)

**Session Chair** : ENAR (2015), JSM (2016), Invited Session at ENAR (2020)

Others: Judge of 2014 ENAR spring meeting RAB poster competition.

#### DEPARTMENTAL SERVICE

##### PHD STUDENTS

Youngho Bae (SKKU), Winter 2026

##### MS STUDENTS

Youngho Bae (SKKU), Winter 2021

Awarded a poster award (2nd prize) at 2021 Spring Conference of KDISS.

Doyoung Kim (SKKU), expected Winter 2021

Awarded the best poster award (1st prize) at 2021 Spring Conference of KDISS and an honorable mention for the poster award at 2021 Spring Conference of KSS.

Sangho Park (SKKU), Winter 2021

Yeonghoon Yoo (SKKU), expected Spring 2022

Hyunwoo Lim (SKKU), expected Spring 2022

Nayeon Kwon (SKKU), expected Spring 2022

Sanghyun Lee (SKKU), expected Winter 2022

Jaehyun Seo (SKKU), expected Winter 2022

Jaeho Yoon (SKKU), expected Winter 2022

##### PHD COMMITTEES

Kevin Cummiskey (Harvard Biostatistics, 2018). Advisor: Corwin M. Zigler

Aya Mitani (Boston Univ. Biostatistics, 2019). Advisor: Kerrie Nelson

Komal Basra (Boston Univ. Environmental Health, 2021). Advisor: Patricia Fabian

Daniel Nguyen (Boston Univ. Environmental Health). Advisor: Junenette Peters

Xiaoyan Liu (Boston Univ. Biostatistics). Advisor: Gheorghe Doros

##### MS COMMITTEES

Amelia Williams (Boston University Epidemiology, 2018). Advisor: Kimberly Shea

##### QUAL EXAMINER

Chloe Kim (Boston University Environmental Health). Advisor: Michael McClean

Komal Basra (Boston University Environmental Health, 2019). Advisor: Patricia Fabian

##### OTHER SERVICES

Co-Organizer, Epidemiology+Biostatistics Joint Seminar Series, Boston University 2018

Co-Organizer, Seminar Series, Department of Biostatistics, Boston University 2017 - 2019



Co-Chair, Course Development Task Force (Topics in Causal Inference), Department of Biostatistics, Boston University 2018 - 2019  
 Convener, PhD Program Review Committee, Department of Biostatistics, Boston University 2018  
 Faculty Search Committee, Department of Biostatistics, Boston University 2018 - 2019  
 Co-Organizer, Causal Inference Seminar Series, Departments of Biostatistics + Mathematics and Statistics, Boston University 2018-  
 Biostatistics Program Advisory Committee (BPAC), Departments of Biostatistics, Boston University 2019-  
 MA/PhD Admission Committee, Departments of Biostatistics, Boston University 2019-

TEACHING  
EXPERIENCE

INSTRUCTOR

STA3034 - Massive Data Analysis and Visualization (Undergrad) Spring 2021

STA2016 - Intro. to Statistical Programming (Undergrad) Fall 2020, Fall 2021, Spring 2022  
 Department of Statistics, SungKyunKwan University

STA5004 - Advanced Categorical Data Analysis (Grad) Fall 2020, Fall 2021  
 Department of Statistics, SungKyunKwan University

STA5030 - Bayesian Statistics (Grad) Spring 2020, Spring 2021  
 Department of Statistics, SungKyunKwan University

STA5039 - Causal Inference (Grad) Spring 2022  
 Department of Statistics, SungKyunKwan University

BS730 - Introduction to Statistical Computing Spring 2018, Spring 2019  
 Teaching core statistical concepts and computing skills with R  
 Department of Biostatistics, Boston University

BS901 - Directed Studies in Biostatistics Summer 2019  
 Analyzing datasets using nonparametric methods  
 Department of Biostatistics, Boston University

POSTDOC MENTOR Summer 2017  
 6 weeks mentoring of summer project participants (Pipelines into Biostatistics)  
 Department of Biostatistics, Harvard T. H. Chan School of Public Health

POSTDOC MENTOR Summer 2016  
 6 weeks mentoring of summer project participants (Pipelines into Biostatistics)  
 Department of Biostatistics, Harvard T. H. Chan School of Public Health

GUEST LECTURER Fall 2018, Spring 2019, Fall 2019  
 Causal Mediation Analysis (3 hours) in BS852 (Bayesian Methodology in Biostatistics)  
 Department of Biostatistics, Boston University School of Public Health

GUEST LECTURER Fall 2014  
 Causal Mediation Analysis (2 hours) in BIO 249 (Bayesian Methodology in Biostatistics)  
 Department of Biostatistics, Harvard T. H. Chan School of Public Health

GUEST LECTURER Spring, Fall 2013  
 2 hour BUGS tutorial in the course SSC 384.7 (spring)  
 1 hour BUGS tutorial in the course SSC 383C (Fall)  
 Division of Statistics and Scientific Computation, The University of Texas at Austin

LAB-INSTRUCTOR Fall 2008, Spring 2009  
 STA 2023 - Introduction to Statistics  
 Teaching lab sessions of the course 3 hours a week  
 Evaluation: 4.31/5 (Spring 2009), 4.38/5, 4.26/5, 4.35/5 (Fall 2008)  
 Department of Statistics, University of Florida

TEACHING ASSISTANT AT UF Spring, Fall 2009  
 STA 3032 - Engineering Statistics  
 STA 4210 - Regression Analysis  
 STA 4183 - Theory of Interest  
 ESI 6546 - Stochastic Modeling and Analysis (Grader)

TEACHING ASSISTANT AT COLUMBIA UNIVERSITY Spring 2007  
 W1211 - Introduction to Statistics (with Calculus)

#### GRANT FUNDING ACTIVE

NRF (PI: Chanmin Kim) Jun 2020 - Feb 2023  
 Bayesian non-parametric methods for estimating causal effect heterogeneity.  
 Role: **Principal Investigator**

Sungkyun Research Fund (PI: Chanmin Kim) Dec 2021 - Dec 2022  
 Heterogeneous Mediation Analysis for High-dimensional Confounders and Mediators.  
 Role: **Principal Investigator**

#### COMPLETED

US-EPA (PI: Corwin Zigler) Sep 2016 - Aug 2020  
 Air Climate and Energy Center: Regional Air Pollution Mixtures: The Past and Future Impacts of Emission Controls and Climate Change on Air Quality and Health, Project 4: A Causal Inference Framework to Support Policy Decisions by Evaluating the Effectiveness of Past Air Pollution Control Strategies for the Entire United States.  
 Role: **PI on subcontract**, subcontract from Harvard University

NIH (PI: Kerrie Nelson) Feb 2018 - Aug 2022  
 Improving Accuracy and Reliability in Cancer Screening Tests  
 Role: **Biostatistician**

NIH (PI: David Sherr) Sep 2012 - Aug 2020  
 Superfund Research Program at Boston University  
 Role: **Biostatistician**

NIH (PI: Lauren Wise and Elizabeth Hatch) Jan 2019 - Oct 2023  
 A Preconception Cohort Study of Environmental Chemicals, Fertility, and Miscarriage  
 Role: **Biostatistician**

NIH (PI: Debbie Cheng) Sep 2016 - Aug 2021  
 Biostatistics and Data Management (BDM) Core - URBAN ARCH Consortium  
 Role: **Biostatistician**

NIH (PI: Jason Roy)	Sep 2014 - Aug 2018
Non-Parametric Bayesian Methods of Causal Inference.	
Role: <b>PI on subcontract</b> , subcontract from University of Pennsylvania	
NIH (PI: Corwin Zigler)	Sep 2015 - Aug 2020
Causal Inference with Interference for Evaluating Air Quality Policies	
Role: <b>Investigator</b>	
NIH (PI: Kerrie Nelson)	Jan 2014 - Dec 2019
Modeling Agreement in Cancer Diagnostic Tests	
Role: <b>Biostatistician</b>	

## COMPUTING

### STATISTICAL PROGRAMS (PACKAGES)

R, SAS, Stan, BUGS (WinBUGS, OpenBUGS), MATLAB	
- SAS Certified Base Programmer for SAS 9 Credential	May 2012
- SAS Certified Advanced Programmer for SAS 9 Credential	Sep 2012

### PROGRAMMING LANGUAGES

Some experience in Python, C++

### OPERATING SYSTEM

Unix, Linux, Windows

MISCELLANEOUS	Exam P pass, Society of Actuaries	Mar 2011
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## REFERENCES

Corwin Zigler	
Associate Professor	Phone: 617-432-5014
Department of Biostatistics	E-mail: czigler@hsph.harvard.edu
Harvard T. H. Chan School of Public Health	
Michael Daniels	
Professor and Chair	Phone: 352-262-9892
Andrew Banks Family Endowed Chair	E-mail: daniels@ufl.edu
Department of Statistics	
University of Florida	
Jason Roy	
Professor of Biostatistics	Phone: 732-235-9168
Chair of Biostatistics and Epidemiology	E-mail: jason.roy@rutgers.edu
Co-Director, Center for Causal Inferece	
Rutgers School of Public Health	