

# Erika Rasnick Manning

Division of Biostatistics and Epidemiology, Cincinnati Children's Hospital Medical Center

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## Education

### Miami University

M.S. STATISTICS

Oxford, OH

Aug-17-May-19

### University of Indianapolis

B.S. BIOLOGY

Indianapolis, IN

Aug-13-May-17

## Experience

### Cincinnati Children's Hospital Medical Center, Division of Biostatistics and Epidemiology

BIostatistician/EPIDEMIOLOGIST II

Cincinnati, OH

Jan-22-present

### Cincinnati Children's Hospital Medical Center, Division of Biostatistics and Epidemiology

BIostatistician/EPIDEMIOLOGIST I

Cincinnati, OH

May-19-Jan-22

## Publications

### High Resolution and Spatiotemporal Place-Based Computable Exposures at Scale

ERIKA RASNICK, PATRICK RYAN, JEFF BLOSSOM, HEIKE LUTTMANN-GIBSON, NATHAN LOTHROP, RIMA HABRE, DIANE R. GOLD, ANDREW VANCIL, JOEL SCHWARTZ, JAMES E. GERN, COLE BROKAMP

AMIA Jt Summits Transl Sci Proc

2023

### Air Pollution Exposure and Autistic-like Behaviors in Childhood: The Cincinnati Combined Childhood Cohorts

NIDHI IYANNA, KIMBERLY YOLTON, GRACE LEMASTERS, BRUCE P. LANPHEAR, KIM M. CECIL, JOEL SCHWARTZ, COLE BROKAMP, ERIKA RASNICK, YINGYING XU, MELINDA MACDOUGALL, PATRICK H. RYAN

International Journal of Hygiene and Environmental Health

2023

### Built environment factors predictive of early rapid lung function decline in cystic fibrosis

EMRAH GECILI, COLE BROKAMP, ERIKA RASNICK, PEDRO M. AFONSO, ELENI-ROSALINA ANDRINOPOULOU, JUDITH W. DEXHEIMER, JOHN P. CLANCY, RUTH H. KEOGH, YIZHAO NI, ANUSHKA PALIPANA, TERESA PESTIAN, ANDREW VANCIL, GRACE CHEN ZHOU, WEIJI SU, CHRISTOPHER SIRACUSA, PATRICK RYAN, RHONDA D. SZCZESNIAK

Pediatric Pulmonology

2023

### Epigenome-Wide Association of Neonatal Methylation and Trimester-Specific Prenatal PM2.5 Exposure

MILAN N. PARIKH, COLE BROKAMP, ERIKA RASNICK, LILI DING, TESFAYE B. MERSHA, KATHERINE BOWERS, ALONZO T. FOLGER

Environmental Epidemiology

2022

### Use of Area Based Socioeconomic Deprivation Indices: A Scoping Review and Qualitative Analysis

STEPHEN TRINIDAD, COLE BROKAMP, ANDRES MOR HUERTAS, ANDREW F. BECK, CARLEY RILEY, ERIKA RASNICK, RICHARD FALCONE, MEERA KOTAGAL

Health Affairs

2022

### Pediatric anxiety and daily fine particulate matter: a longitudinal study

ANDREW VANCIL, JEFFREY R STRAWN, ERIKA RASNICK, AMIR LEVINE, HEIDI K SCHROEDER, ASHELY M SPECHT, ASHLEY L TURNER, PATRICK H RYAN, COLE BROKAMP

Psychiatry Research Communications

2022

### Association of Primary Care Shortage Areas with Adverse Outcomes After Pediatric Liver Transplant

HOLLY P. SHIFMAN, ERIKA RASNICK, CHIUNG-YU HUANG, ANDREW F. BECK, JOHN BUCUVALAS, JENNIFER C. LAI, SHARAD I. WADHWANI

The Journal of Pediatrics

2022

### Racial Fairness in Precision Medicine: Pediatric Asthma Prediction Algorithms

JORDAN PENNINGTON, ERIKA RASNICK, LISA J. MARTIN, JOCELYN M. BIAGINI, TESFAYE B. MERSHA, ALLISON PARSONS, GURJIT K. KHURANA HERSHEY, PATRICK RYAN, COLE BROKAMP

American Journal of Health Promotion

2022

<b>Neighborhood Socioeconomic Deprivation and Healthcare Utilization of Medically Complex Children</b>	<i>Pediatrics</i>
JOANNA THOMSON, BREANN BUTTS, SAIGE CAMARA, ERIKA RASNICK, COLE BROKAMP, STUART TAYLOR, CAROLINE HEYD, REBECCA STEUART, SCOTT CALLAHAN, ANDREW BECK	2022
<b>Using of Geomarkers to Predict Risk for Caregiver Adversity during Pediatric Hospitalization</b>	<i>Hospital Pediatrics</i>
ANITA N. SHAH, ERIKA RASNICK, MOHAMMED BHUIYAN, CHRIS WOLFE, DIANNA BOSSE, KATHERINE A. AUGER, JEFFREY SIMMONS, SAMIR SHAH, COLE BROKAMP, ANDREW F. BECK	2022
<b>A Geographic Perspective on Opioid Misuse: Substance Abuse Treatment Deserts in Southwestern Ohio</b>	<i>Ohio Journal of Public Health</i>
LINNEA LOWE, COLE BROKAMP, ERIKA RASNICK, ERIC S. HALL, SHAUNA ACQUAVITA	2021
<b>Socioeconomic and racial disparities in diabetic ketoacidosis admissions in youth with type 1 diabete</b>	<i>Journal of Hospital Medicine</i>
ANDREA R. MAXWELL, NANA-HAWA YAYAH JONES, STUART TAYLOR, SARAH D. CORATHERS, ERIKA RASNICK, COLE BROKAMP, JESSICA KICHLER, CARLEY L. RILEY, ANDREW F. BECK	2021
<b>Seasonality, mediation and comparison (SMAC) methods to identify influences on lung function decline</b>	<i>MethodsX</i>
EMRAH GECILIA, ANUSHKA PALIPANAA, COLE BROKAMP, RUI HUANG, ELENI- ROSALINA ANDRINOPOULOU, TERESA PESTIAN, ERIKA RASNICK, RUTH H. KEOGH, YIZHAO NI, JOHN P. CLANCY, PATRICK RYAN, RHONDA D. SZCZESNIAK	2021
<b>Seasonal variation of lung function in cystic fibrosis: longitudinal modeling to compare a Midwest US cohort to international populations</b>	<i>Science of the Total Environment</i>
EMRAH GECILI, COLE BROKAMP, ANUSHKA PALIPANA, RUI HUANG, ELENI-ROSALINA ANDRINOPOULOU, TERESA PESTIAN, ERIKA RASNICK, RUTH H. KEOGH, YIZHAO NI, JOHN P. CLANCY, PATRICK RYAN, RHONDA SZCZESNIAK	2021
<b>Identifying sensitive windows of air lead exposure associated with behavioral outcomes at age12</b>	<i>Environmental Epidemiology</i>
ERIKA RASNICK, PATRICK RYAN, A. JOHN BAILER, THOMAS FISHER, NICHOLAS C. NEWMAN, KIMBERLY YOLTON, COLE BROKAMP	2021
<b>Neighborhood socioeconomic deprivation, racial segregation, and organ donation across 5 states</b>	<i>American Journal of Transplantation</i>
SHARAD I. WADHWANI, COLE BROKAMP, ERIKA RASNICK, JOHN C. BUCUVALAS, JENNIFER C. LAI, ANDREW F. BECK	2020
<b>Characterization of Arabidopsis thaliana regrowth patterns suggests a trade-off between undamaged fitness and damage tolerance</b>	<i>Oecologia</i>
DANIEL R. SCHOLES, ERIKA RASNICK, KEN N. PAIGE	2017

## Presentations

<b>High Resolution and Spatiotemporal Place-Based Computable Exposures at Scale</b>	<i>Chicago, IL</i>
INTERNATIONAL SOCIETY OF EXPOSURE SCIENCE ANNUAL MEETING	23-Aug
<b>Methods for linking housing-unit-level characteristics with residential addresses in the electronic health record: A comparison of approaches using messy, real-world addresses</b>	<i>Chicago, IL</i>
INTERNATIONAL SOCIETY OF EXPOSURE SCIENCE ANNUAL MEETING	23-Aug
<b>Geospatial harmonization with multimodal geomarkers and R package developments (invited)</b>	<i>Virtual (King's College London, UK)</i>
ERCIM WG ON COMPUTATIONAL AND METHODOLOGICAL STUDIES	22-Dec
<b>High Resolution and Spatiotemporal Place-Based Computable Exposures at Scale</b>	<i>Athens, Greece</i>
INTERNATIONAL SOCIETY OF ENVIRONMENTAL EPIDEMIOLOGY ANNUAL MEETING	22-Sep
<b>Democratizing Geospatial Data</b>	<i>Virtual</i>
USER 2022	22-Jun
<b>Introduction to Sample Size Lecture</b>	<i>University of Cincinnati</i>
DESIGN AND MANAGEMENT OF FIELD STUDIES IN EPIDEMIOLOGY COURSE	22-Feb
<b>Decentralized and Reproducible Geocoding and Characterization of Community and Environmental Exposures for Multi-Site Studies</b>	<i>Virtual</i>
MOBILIZING BIOMEDICAL COMPUTABLE KNOWLEDGE CONFERENCE	21-Jul

## APIs and R

DIVISION OF BIOSTATISTICS AND EPIDEMIOLOGY LUNCH AND LEARN

### Introduction to Sample Size Lecture

DESIGN AND MANAGEMENT OF FIELD STUDIES IN EPIDEMIOLOGY COURSE

### Geomarker Assessment with R

SATRDAY COLUMBUS

### Identifying sensitive windows of air lead exposure associated with behavioral outcomes at age12

INTERNATIONAL SOCIETY OF ENVIRONMENTAL EPIDEMIOLOGY ANNUAL MEETING

### Identifying sensitive windows of air lead exposure associated with behavioral outcomes at age12

CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER DIVISION OF BIOSTATISTICS AND EPIDEMIOLOGY SEMINAR

### Identifying sensitive windows of air lead exposure associated with behavioral outcomes at age12

MIAMI UNIVERSITY DEPARTMENT OF STATISTICS MASTER'S DEGREE PRESENTATION

### Characterization of Arabidopsis thaliana regrowth patterns suggests a trade-off between undamaged fitness and damage tolerance

MIDWEST ECOLOGY AND EVOLUTION CONFERENCE

Cincinnati Children's Hospital,

Cincinnati, OH

21-May

University of Cincinnati

21-Mar

Virtual (Columbus, OH)

20-Nov

Virtual

20-Aug

Cincinnati, OH

19-Aug

Oxford, OH

19-Apr

Champaign, IL

17-Mar

## Computer Skills

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### Languages

R

+ Tidyverse

+ GIS packages

+ R Markdown

+ R Shiny

+ Package development

SAS

SQL

**Tools:** Git, Docker