

# EUNGANG (PETER) CHOI

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## EDUCATION

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**The Ohio State University, Columbus, Ohio**

*May. 2023 (expected)*

Ph.D in Sociology

- Advisor: Sam Clark
- Committee: Sam Clark, Rachel Dwyer, David Melamed, Zehang Li
- Graduate Interdisciplinary Specialization in Demography(GISD)
- IPR (Institute for Population Research) Student Affiliate
- TDAI (Translational Data Analytics Institute) Associate

**The Ohio State University, Columbus, Ohio**

*Dec. 2019*

M.A.D in Sociology

- in Sociology (2019)

**KDI School of Public Policy and Management, Seoul, S.Korea**

*Aug. 2013*

Master of Public Policy (MPP)

*Magna Cum Laude*

- Thesis : Research on US Crime Rate - Using the Kinked Experience Curve Model
- Concentration: Entrepreneurship and Private Sector Development / Finance and Macroeconomic Policy

**Handong Global University, Pohang, S.Korea**

*Feb. 2012*

B.A. Management, International Area Studies (Double Major)

## PUBLICATIONS

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Daniel Chandramohan, ... , **Eungang Choi**, ... , Don de Savigny (2021) “Estimating causes of death where there is no medical certification: Evolution and state of the art of verbal autopsy” *Global Health Action* (Accepted)

Tim Riffe, Enrique Acosta, **Eungang Choi**, the COVERAGE-DB team (2021) “Data Resource Profile: COVERAGE-DB: a global demographic database of COVID-19 cases and deaths” *International Journal of Epidemiology*, Volume 50, Issue 2, April 2021, Pages 390 - 390f, DOI: <https://doi.org/10.1093/ije/dyab027>

## WORK IN PROGRESS

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**Eungang Choi**, Erick Axxe, and Melina Raglin (2021) “Advances in Computer Vision and Its Applications in Social Science: Deriving Race and Gender from Photos (*Under Review*)

Zehang Richard Li, Jason Thomas, **Eungang Choi**, Tyler H McCormick, Samuel J Clark (2021) “The openVA Toolkit for Verbal Autopsies” (*Under Review - R&R*)

**Eungang Choi** and Erick Axxe <sup>1</sup> “Race and Gender Disparities in Academic Pay.

**Eungang Choi** and Erick Axxe <sup>2</sup> “Behind the Cyber Curtain: Discrimination within Airbnb’s Open-Rating System”

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<sup>1</sup>Equal Authorship

<sup>2</sup>Equal Authorship

**Eungang Choi** “Recent Trends in Fertility: Ambiguity in Rise or Decline”

**Eungang Choi** “Access to Transportation: Bus Network and Spatial Inequality in Columbus”

## SOFTWARE

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Melina Raglin, **Eungang Choi**, and Erick Axxe. **DCiFR**(Demographic Characteristics in Facial Recognition computer)

**Peter Byass** [aut], **Eungang Choi** [aut], **Sam Clark** [aut], **Zehang Li** [aut], **Nicolas Maire** [aut], **Tyler McCormick** [aut], **Jason Thomas CrossVA** (R)

**Eungang Choi**, **Jason Thomas**, **Sam Clark** **PyCrossVA** (Python)

## TEACHING

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**Introduction to Sociology** July 2021  
*SOC 1101 - Guest Lecture* *The Ohio State University*

**Urban Social Problems** Oct. 2020 & Mar. 2021  
*SOC 2367 - Guest Lecture* *The Ohio State University*

**Analysis and Display of Data** Nov. 2019  
*ECON 3400 - Guest Lecture* *The Ohio State University*

**Seminar for Graduate Interdisciplinary Specialization in Demography** Nov. 2019  
*SOC 8802/PUBHLTH 8802 - Guest Lecture* *The Ohio State University*

**Introduction to Sociology** Nov. 2018  
*SOC 1101 - Guest Lecture* *The Ohio State University*

## PRESENTATION

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**Natural Language Processing in the Context of Qualitative Researcher** Aug. 2022  
*American Sociological Association Annual Meeting* *Los Angeles, CA*

**Computer Vision and Applications in Social Science: Deriving Race and Gender From Photos** Apr. 2022  
*Population Association of America Annual Meeting* *Atlanta, GA*

**Race and Gender Disparities in Academic Pay** Sep. 2021  
*Academic Analytics Research Center* *Virtual Webinar*

**Race and Gender Disparities in Academic Pay** May. 2021  
*Population Association of America Annual Meeting - Awarded Best Poster* *Virtual Conference*

**Race and Gender Disparities in Academic Pay** Oct. 2020  
*14th Annual OSU/BGSU Graduate Student Conference* *Virtual Conference*

**Discrimination Behind the Cyber Curtain:  
Comparing Airbnb’s User-Based Ratings and Text Reviews** Aug. 2020  
*American Sociological Association Annual Meeting* *Virtual Conference*

**A Flaw of the Open-Rating System:  
Discrimination within AirBnb’s User-Based Ratings** Apr. 2020  
*Population Association of America Annual Meeting* *Washington DC*

*\*Canceled due to COVID-19*

<b>Verbal Autopsy and OpenVA</b> <i>TDAI Fall Forum</i>	Nov. 2019 <i>Columbus, OH</i>
<b>Access to Transportation: Bus Network and Spatial Inequality in Columbus</b> <i>American Sociological Association Annual Meeting</i>	Aug. 2019 <i>New York, NY</i>
<b>Training of Trainers Workshop</b> <i>Presenter/Trainer</i>	Nov. 2018 <i>Columbus, OH</i>
· VA Data Quality Review and COD Assignment	
<b>OpenVA Pipeline Implementers and Developers Meeting</b> <i>Presenter/Trainer</i>	May. 2018 <i>Singapore</i>

## TRAINING

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<b>Data Carpentries Instructor Training</b>	Mar, 2021
· Data Carpentries (Virtual)	
<b>Text Analysis Group (Co-organizer)</b>	June - Aug, 2020
· The Ohio State University (Virtual)	
<b>Summer Institute in Computational Social Science (SICSS)</b>	June, 2019
· Northwestern University	
<b>DHIS2 Configuration</b>	March, 2019
· Basel, Switzerland (Swiss TPH)	
<b>IUSSP/MPIDR Workshop on Monitoring Mortality in the Era of the SDGs</b>	June, 2018
· Rostock, Germany	
<b>Annual Workshop on Formal Demography</b>	June, 2018
· UC Berkeley	
<b>Demographic Research in the Digital Age</b>	April, 2018
· Denver, CO (PAA 2018)	

## MEMBERSHIP

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<b>Population Association of America (PAA)</b>	2018 - Present
<b>International Union for the Scientific Study of Population (IUSSP)</b>	2018 - Present
<b>American Sociological Association (ASA)</b>	2018 - Present

## SCHOLARSHIPS & AWARDS

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<b>Best Poster Award - Population Association of America 2021 Annual Meeting</b> <i>PAA</i>	2021
<b>2019 Summer Institute in Computational Social Science - Chicago Grant (\$700)</b> <i>SICCS-Chicago</i>	2019

<b>2019 Summer Methods Training Award (\$1,200)</b> <i>Department of Sociology, OSU</i>	2019
<b>2018 Summer Methods Training Award(\$1,183)</b> <i>Department of Sociology, OSU</i>	2018
<b>University Fellowship</b> <i>The Ohio State University</i>	2017 - 2018
<b>Dean's List with Distinction</b> <i>KDI School of Public Policy and Management</i>	2012 - 2013
<b>CA (Class Assistant) Scholarship</b> <i>KDI School of Public Policy and Management</i>	2012 - 2013

## MENTORING

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<b>Undergraduate Research Assistants</b> <i>The Ohio State University</i>	2019-Present
<ul style="list-style-type: none"> <li>• Mentoring a group of undergraduates for Computational Social Science - studying race and inequality</li> <li>• Provide training and teach R, Python, and other skills (web scraping, analysis, visualization, literature review, presentation)</li> <li>• Encourage students to move on to careers in the field of CSS/Data Analytics (graduate school, industry jobs, internships)</li> <li>• This includes co-authorship, presentations at academic conferences, and writing recommendation letters</li> <li>• Melina Raglin - Data Analysis Intern at Abercrombie &amp; Fitch Co. (Summer 2022)</li> <li>• Godwin Mshiw - Analyst at JP Morgan Chase &amp; Co. (Since 2021)</li> <li>• Yulu Qin - MS, Computer Science, New York University (expected 2023)</li> <li>• Xiaowen Sun - MS, Software Engineering, UC Irvine (expected 2024)</li> </ul>	

## SERVICE

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### To the University and Department

- Graduate Student Representative on Research Committee (Fall 2019 - Spring 2021)
- Reviewer - President's Research Excellence (PRE) Program Accelerator Proposals (Spring 2021)
- Co-Organizer - Introduction to High-Performance Cloud Computing (Fall 2021)
- Organizer - Creating Professional Website Workshop (Spring 2020)
- Organizer - Introduction to Python Workshop (Fall 2019, Spring 2020)
- Co-Organizer - Text Analysis Working Group (TAG) (Summer 2020 - Spring 2021)

### To the Discipline

- Reviewer - Sociological Methodology
- Reviewer - PLOS Global Public Health
- Presider - American Sociological Association Annual Meeting (2022) - Structural Drivers of Health Inequality, Medical Sociology Round-table Session

- Chair - Population Association of America Annual Meeting (2021) - Formal Demography, Innovations in Theory and Methods

## COUNTRY SUPPORT

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### **Vital Strategies**

*Consultant*

Nov. 2019

*Dhaka, Bangladesh*

- VA Data Quality and Scale-up Workshop

### **Vital Strategies**

*Consultant*

Mar. 2019

*Honiara, Solomon Islands*

- openVA Pipeline Development and Implementation

### **Vital Strategies**

*Consultant*

Dec. 2018

*Delhi, India*

- Training on VA Algorithms and Software/Comparing Methods for Assigning CoD Assignment

### **Vital Strategies**

*Consultant*

Nov. 2018

*Dhaka, Bangladesh*

- A data quality check customization/CoD assignments through OpenVA Pipeline

## WORK EXPERIENCE

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### **Nationwide Mutual Insurance Company**

*Data Science Intern/GRA - Enterprise Analytics Office*

May. 2021 - Present

*Columbus, OH*

- Using ML/Deep Learning models to predict/classify important information in making business decisions
- Methods include - BERT, Advanced clustering Methods, BBC-CV, SpaCy, and more

### **Korea Standards Association**

*Consultant*

Sep. 2016 - Aug. 2017

*Seoul, S.Korea*

- Management Innovation Center, Organization Competency Innovation Center

### **KPMG**

*Consultant*

Nov. 2015 - Jun. 2016

*Seoul, S.Korea*

- Business Consulting Service

### **KMAC**

*Senior Consultant*

Mar. 2013 - Jun. 2015

*Seoul, S.Korea*

- Management of Technology
- Global Business/Management Strategy Division

## TECHNICAL STRENGTHS

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### **Software & Tools**

Python, R, STATA, SPSS, SQL, L<sup>A</sup>T<sub>E</sub>X, Markdown