Shiv Yücel

+44-7539-065-406 | shiv.yucel@ouce.ox.ac.uk | Website: shivyucel.github.io

EDUCATION

University of Oxford, Department of Geography and the Environment

Oxford, United Kingdom

DPhil, Geography and the Environment

Oct 2022 - present

University of Oxford, Oxford Internet Institute

Oxford, United Kingdom

MSc, Social Data Science - Distinction

Oct 2020 - Aug 2021

University of Toronto, Trinity College

Toronto, Ontario

Hon.BA, Economics Major, Psychology/Politics Minors - CGPA: 3.81/4, Major GPA: 3.87/4 Sept 2016 - June 2020

WORK EXPERIENCE

Project Manager & Data Scientist

Aug 2021 – Sept 2022

Oxford Artificial Intelligence Ltd.

Oxford, England

- Managed a team of four data scientists and website developers
- I was responsible for projects on air pollution, mobility, and inequality for a large urban charity in London.
- Conducted presentations to stakeholders and domain experts on the findings of our mobility-based indicators, along with relevant details on ethics and methodology.

Data Scientist Jan 2021 – Aug 2021

Oxford Artificial Intelligence Ltd.

Oxford, England

- Analysis of high volume cell-phone mobility and pollution data to study air pollution exposure in the UK
- Developing novel public health tools to support UK government agencies and national charities
- Developing data analysis pipelines as inputs to a live-updating health and inequality monitor

Research Assistant Sept 2021 – Dec 2021

University of Oxford

Oxford, England

 Analyzing largest database of online job advertisements to study the distribution of technological skill demand in the UK

Economics Peer Academic Advisor

Sept 2019 – June 2020

Trinity College, University of Toronto

Toronto, Ontario

- Hosted tutoring sessions to help students prepare for economics examinations and written assignments
- Mentoring undergraduate students to provide guidance on academic trajectory
- Organized the Trinity College Undergraduate Research Conference

Senior Counselor

June 2017 – August 2017

Algonquin Park, Ontario

Camp Arowthon

- Leading adolescents on week-long canoe trips in Algonquin Park
- Teaching lessons about the important role of provincial parks and greenspace in Canada
- Awarded Counselor of the Year

Communications Coordinator

Sept 2016 – June 2017

Duke of Edinburgh Award, University of Toronto

Toronto, Ontario

- Organizing community volunteering and leadership-building in the Canadian wilderness
- Helped grow organization from 20 members to over 100

PEER-REVIEWED PUBLICATIONS

Impact of Network Centrality and Income on Slowing Infection Spread After Outbreaks

Feb 2023

Applied Network Science (paper linked here)

- Publication based on MSc Thesis with Dr. Chico Camargo, Dr. Rafael Pereira, and Dr. Pedro Peixoto
- Analyzing cell-phone mobility and traffic data to model COVID-19 and assess policy impacts in São Paulo
- Understand how demographic factors (eg. race, income) interact with mobility and COVID-19 transmission

FORTHCOMING PEER-REVIEWED PUBLICATIONS

Access to Opioid Agonist Treatment during COVID-19 Public Transport Disruptions

Oct 2022

Accepted with Minor Revisions to International Journal of Drug Policy (preprint linked here)

- Focused on Toronto, a major Canadian city suffering from the opioid epidemic, this paper uses novel routing methodologies to quantify how travel times to individuals' nearest methodone clinics changed due to public transport disruptions from 2019 to 2020
- This paper uses open-source data sources to estimate the vulnerable populations that were impacted by the largest transport disruptions in the city's history.

Peer-Reviewed Conference Presentations

Impact of Network Centrality and Income on Slowing Infection Spread After Outbreaks

May 2022

13th International Conference on Complex Networks

Exeter, England

- Presentation of methodology to assess the effectiveness of mobility-based lockdown interventions during COVID-19
- São Paulo, Brazil used as case study to assess how mobility restrictions, captured using cell phone mobility data, slow down the spread of disease.
- · Captures impacts of travel networks and social inequality as factors influencing the arrival of disease

Non-Refereed Publications

Rapid Evidence Policy Paper on Vaccine Uptake

March 2021

UK Independent Scientific Pandemic Insights Group on Behaviours

Oxford, England

- Contributed to emergency policy paper (linked here) on behalf of the UK Independent Scientific Pandemic Insights Group on Behaviours (SPI-B), informing the UK Scientific Advisory Group for Emergencies
- Investigating the relationship between vaccination status and mobility behaviors using cell phone mobility data

Non-Refereed Conference Presentations

How Big Data and AI are Tackling Public Health Problems

March 2022

Big Data and AI World

London, England

• Demonstrated air pollution exposure tool based on anonymized cell phone mobility and hourly pollution data in London, United Kingdom.

Tomorrow's Legal Teams: Roles, Education, and Training

Sept 2021

 ${\it Unlocking the Potential of Artificial Intelligence for English \ Law}$

Oxford, England

 Demonstrated live-updating monitor of technological skill demand in the UK labor market for United Kingdom Research and Innovation policy tool

The Socio-Economic Factors that Influenced Indigenous Nutrition in 1800s

March 2020

Trinity College Undergraduate Research Conference

Toronto, Canada

• Presented empirical research on relationship between health outcomes and mobility patterns among nomadic Aboriginals in 19th century.

EDITORIAL ACTIVITY

• Reviewer for PLOS ONE (July 2022) on manuscript analyzing the impact of COVID-19 policy interventions on mobility behaviours

AWARDS & ACHIEVEMENTS

2016-2021

- Distinction on MSc Course and Thesis, Oxford Internet Institute, University of Oxford
- Dean's List Scholar x 3, University of Toronto | The Drew Thompson Scholarship, University of Toronto
- The Chancellor's Scholarships, University of Toronto | Marion P. Osler Scholarship, University of Toronto
- Trinity College Board of Stewards

SKILLS

Python (pandas, numpy, sklearn, geopandas, etc.), R, analytical writing, statistics, mathematics, spatial data science