

# Shiv Yücel

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## EDUCATION

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### University of Oxford, Oxford Internet Institute

*MSc, Social Data Science – Distinction*

Oxford, United Kingdom

*Oct 2020 – Aug 2021*

### University of Toronto, Trinity College

*Hon.BA, Economics Major, Psychology/Politics Minors – CGPA: 3.81/4, Major GPA: 3.87/4*

Toronto, Ontario

*Sept 2016 – June 2020*

## EXPERIENCE

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### Project Manager & Data Scientist

Aug 2021 – present

### Data Scientist

Jan 2021 – Aug 2021

*Oxford Artificial Intelligence Ltd.*

*Oxford, England*

- Developing novel public health tools to support UK government agencies and national charities
- Analysis of high volume cell-phone mobility and pollution data to study air pollution exposure in the UK
- 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 database of online job advertisements to study geographic distribution of skill demand in the UK

### Economics Peer Academic Advisor

Sept 2019 – June 2020

*University of Toronto, Trinity College*

*Toronto, Ontario*

- Hosted tutoring sessions to help students prepare for economics examinations and written assignments, and organised meetings with undergraduate students to provide guidance on academic trajectory

## RESEARCH

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### Conference Presentation | 13th International Conference on Complex Networks

May 2022

### Impact of Network Centrality and Income on Slowing Infection Spread after Outbreaks

- Presentation of a novel methodology, called the Infection Delay Model, to calculate how the arrival time of an infection varies geographically, considering both travel networks and differences in regions' capacity to isolate

### MSc Thesis | Awarded Distinction

Oct 2020 – Aug 2021

### Assessing Early COVID-19 Lockdown Effectiveness in São Paulo

- Submitted manuscript (preprint [here](#)) 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

### Conference Presentation | Unlocking the Potential of Artificial Intelligence for English Law

Sept 2021

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

### Rapid Evidence Paper | UK Independent Scientific Pandemic Insights Group on Behaviours

March 2021

- 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

### Poster Presentation | Trinity College Undergraduate Research Conference

March 2020

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

## AWARDS & ACHIEVEMENTS

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### 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

## EDITORIAL ACTIVITY

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Reviewer for PLOS ONE

## SKILLS

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