

# IHSAN KAHVECI

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## EMPLOYMENT

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### Center for Studies in Demography and Ecology, University of Washington

Seattle, WA

Quantitative Researcher

2021– Present

- Developed a mobile app to collect anonymous social network data from 3,000 respondents across 20 locations, utilizing process data to enhance data integrity and user engagement. [Publication](#).
- Conducted a survey experiment and two focus groups to test the impact of social desirability bias in sensitive survey questions and improve the quality of demographic and behavioral data collection.
- Created internal tools to standardize data preparation, ensuring consistent and reproducible results for the team.
- Trained 70 staff members on data collection methods for a project on homelessness in collaboration with [King County](#).

Research Assistant

- Prepared 2 comprehensive reports for policymakers and researchers, communicating quantitative insights and providing data-driven recommendations to enhance administrative data collection and decision-making.
- Created an interactive dashboard with maps and visuals for stakeholders, presenting the results of rigorous data accuracy assessments by comparing WA tax records, building permits, and Census 2020 counts using geospatial matching.

### Max Planck Institute for Demographic Research

Rostock, Germany

IMPRS-PHDS Research Fellow

2021 – Present

- Developed propensity score methods to reduce non-response bias in social media surveys, improving representativeness.
- Generated sampling weights for complex survey data using bootstrap techniques, enhancing the precision of estimates.

## INTERNSHIP/TEACHING/CONSULTING

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### Center for Statistics and the Social Sciences, University of Washington

Seattle, WA

Instructor

Summer 2024

- Created and taught a 300-level course on statistical analysis and data science for 30 students. [Syllabus](#).
- Covered topics such as hypothesis testing, multivariate regression, bootstrapping, and statistical inference.
- Designed labs on data import, analysis, visualization, debugging, and statistical modeling in R.
- Mentored students on final projects, emphasizing research design, data communication, and real-world applications.

### Arya.fyi

New York, NY

Statistical Consultant

May – June 2023

- Utilized multilevel regression models to derive insights into couples' engagement and their post-app adoption.
- Generated automated [reports](#) on demographics and user satisfaction for the marketing team using a customer survey.

### eScience Institute

Seattle, WA

Data Science Intern

Summer 2022

- Designed and managed a PostgreSQL database for hosting 10M administrative data records of WA residents.
- Implemented statistical models to predict households using individual's address, employment, and state records.
- Conducted 7 stakeholder interviews with government employees, community leaders, and researchers.
- Collaborated with cross-functional teams, developed a software package, gave a public presentation, and created a [website](#).

## EDUCATION

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### University of Washington

Seattle, WA

PhD Candidate in Sociology (*expected Dec 2025*)

2019 – Present

- Graduate Certificate in Demographic Methods (2022)
- Graduate Certificate in Statistics and Social Sciences Certificate (2022)

MA in Sociology (2021)

### Bogazici University

Istanbul, Turkey

BA in Management

2014 – 2019

## SKILLS

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**Data Science:** R, Python, SQL, Bash, PostgreSQL, Databricks, text analysis (topic modeling, word embeddings, LLMs), data visualization (ggplot2, Shiny, Plotly, Leaflet, Tableau), cloud computing, software development, version control.

**Quantitative Methods:** survey methods (questionnaire design, sampling, weighting), statistical modeling (GLMs, hierarchical models, regularized regression), causal inference (A/B testing, propensity score matching, differences-in-differences), social network analysis (Statnet, Gephi, NetworkX), geospatial analysis, time series analysis, forecasting.