

VSEVOLOD IAKOVLEV

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EDUCATION

PhD, Economics

Edinburgh, UK

Heriot-Watt University, Centre for Social and Economic Data Analytics

September 2021 – September 2025

- Dissertation: Essays on labour mismatch with applications of machine learning
- Supervisors: Dr Cristina Tealdi, Dr Rachel Forshaw, Dr Erkal Ersoy
- Annual Reviewers: Prof Arnab Bhattacharjee, Prof Mark E. Schaffer

MSc, Economics

Edinburgh, UK

University of Edinburgh, Scottish Graduate Programme in Economics

September 2020 – August 2021

- Focus on microeconomics, econometrics, labour economics, applied microeconometrics
- Dissertation on the effect of tuition fees on labour mismatch in the UK; supervised by Prof Keith A. Bender

MA (Hons), Economics with Management Science

Edinburgh, UK

University of Edinburgh

September 2016 – May 2020

- Focus on mathematical economics, microeconomics, econometrics, dynamic programming, operational analysis
- Dissertation on the revealed preferences theory and college admissions; supervised by Prof Simon Clark

RESEARCH EXPERIENCE

PhD Research (selected projects)

Edinburgh, UK

Heriot-Watt University

September 2021 – Present

- Designed a measurement framework providing labour mismatch with a foundation in stable matching theory
- Built two labour market simulations allowing to recreate the conditions facilitating labour mismatch
- Developed a Python script integrating stacked double-debiased machine learning with sample weight correction
- Contributed to multi-institutional research collaborations

Research Assistant

Edinburgh, UK

Heriot-Watt University

March 2022 – June 2023

- *Statistical Review of World Energy 2022, 2023 (CEERP)*
Processed and analysed data on countries' natural gas and oil supply and demand using MS Excel and Access.
Worked in collaboration with colleagues from BP and the Energy Institute.
- *Current Population Survey datasets matching*
Developed R scripts to track and match respondent IDs across 33 years of CPS data, improving panel continuity and data reliability

INDUSTRY EXPERIENCE

Analyst Intern

Edinburgh, UK

IC Select

June 2020 – August 2020

- Built an MS Access database to centralise fiduciary manager selection data.
- Conducted an analysis of fiduciary managers' reports and presented findings to the team.

Activity Leader

Edinburgh, UK

Fettes Centre for Language and Culture

July 2017, July 2018

- Supervised students on campus, led project sessions and excursions, organised summer camp activities

TEACHING EXPERIENCE

University of Edinburgh

September 2021 – May 2024

- SGPE Econometrics 1 (postgraduate) – Tutor
- SGPE Econometrics 1 (postgraduate) – Stata labs assistant

Heriot-Watt University

January 2023 – May 2024

- Econometric Methods (postgraduate) – Stata labs assistant
- The Economy (undergraduate) – Exam marker

PUBLICATIONS & WORKING PAPERS

Skill vs. education types of labour mismatch and their association with earnings (2024) in Accountancy, Economics, and Finance Working Papers (No. 2024-12)

Using machine learning methods to estimate the gender wage gap (2024) in Machine Learning for Econometrics and Related Topics (pp. 109-129). Cham: Springer Nature Switzerland., with R. J. Forshaw, M. E. Schaffer, C. Tealdi

An Introduction to Stacking Regression for Economists (2022) in International Conference of the Thailand Econometrics Society (pp. 7-29). Springer, Cham, with A. Ahrens, E. Ersoy, H. Li and M. E. Schaffer

CONFERENCE PRESENTATIONS

2025	SGPE Residential Conference	Crieff, UK
2024	Workshop on Frontiers of Macro – Labour Economics	Edinburgh, UK
	Scotland and Northern England Conference in Applied Microeconomics	Crieff, UK
	SGPE Residential Conference	Crieff, UK
2023	SGPE Residential Conference	Crieff, UK

CODE

toysimlm – Python implementation of a simple microsimulation of labour mismatch based on a static interpretation of the two-sided matching model

dap_mrs – Python implementation of the deferred acceptance procedure designed to compute an applicant-optimal assignment using agents' characteristics and their counterparts' marginal rate of substitution

mismatch_toolbox – Python implementation of multiple approaches for computing educational and skill mismatch using data from the 1st Cycle of the Survey of Adult Skills (PIAAC)

SKILLS

Programming: Python (pandas, NumPy, Matplotlib, scikit-learn, DoubleML), Stata, R, MATLAB

Tools: Git, Excel, MS Access, GAMS, \LaTeX

Methods: Economic modelling, econometrics, machine learning, causal inference, simulation modelling

Datasets: PIAAC, LFS, CPS, energy data

Languages: Russian (native), English (fluent)

WORKSHOPS & TRAINING

Treatment Effects and Machine Learning	Oxford, UK
<i>University of Oxford</i>	<i>September 2022</i>
Machine Learning for Economists	St Andrews, UK
<i>University of St Andrews</i>	<i>August 2022</i>

LEADERSHIP & VOLUNTEERING

Jiu Jitsu Instructor	Edinburgh, UK
<i>James Gillespie's High School, Edinburgh University Jiu Jitsu Club</i>	<i>September 2021 – Present</i>
• Volunteered to lead junior and university-level jiu jitsu sessions; certified instructor under the Jiu Jitsu Foundation	
Team Captain and Wellbeing Officer	Edinburgh, UK
<i>Edinburgh University Judo Club</i>	<i>April 2024 – April 2025</i>
• Provided support for the university judo team and helped to organise the travel logistics	
Co-Founder and Treasurer	Edinburgh, UK
<i>ScotQuan</i>	<i>March 2019 – May 2020</i>
• Co-founded a student-led data-consulting social enterprise, and managed its finances and business development	

AWARDS

First Place Award for SGPE Econometrics Project	<i>May 2021</i>
Fettes Centre for Language and Culture Staff Above and Beyond Award	<i>July 2018</i>