

# 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*

- Research Project: Labour mismatch through the lens 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 microeconomics
- 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, labour economics
- Dissertation on the revealed preferences theory and college admissions; supervised by Prof Simon Clark

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## WORK EXPERIENCE

### Research Assistant

Edinburgh, UK

*Heriot-Watt University*

*March 2022 – Present*

- *Statistical Review of World Energy 2022, 2023 (CEERP)*  
Searched for, 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*  
Used R to identify returning respondents and match their records across 33 years of monthly CPS data

### Teaching Assistant

Edinburgh, UK

*University of Edinburgh, Heriot-Watt University*

*September 2021 – Present*

- SGPE Econometrics 1 (postgraduate) – Tutor
- SGPE Econometrics 1 (postgraduate) – Stata labs assistant
- Econometric Methods (postgraduate) – Stata labs assistant
- The Economy (undergraduate) – Exam marker

### Analyst Intern

Edinburgh, UK

*IC Select*

*June 2020 – August 2020*

- Developed an MS Access database to store information used for fiduciary managers selection.
- 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

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## RESEARCH

*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

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### 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

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**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

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**Languages:** Russian (Native), English (Fluent)

**Experienced in:** Python (pandas, NumPy, Matplotlib, scikit-learn, DoubleML), Stata, R, L<sup>A</sup>T<sub>E</sub>X

**Have worked with:** Matlab, Git, MySQL, GAMS

## COURSES

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**Spatial Econometrics** Edinburgh, UK  
*Heriot-Watt University* April 2023

**Treatment Effects and Machine Learning** Oxford, UK  
*University of Oxford* September 2022

**Machine Learning for Economists** St Andrews, UK  
*University of St Andrews* August 2022

## POSITIONS OF RESPONSIBILITY

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**Jiu Jitsu Instructor** Edinburgh, UK  
*James Gillespie's High School, Edinburgh University Jiu Jitsu Club* September 2021 – June 2023

- Volunteered to teach Jiu Jitsu at a junior and a university club. Mandated instructor in the Jiu Jitsu Foundation.

**Team Captain and Wellbeing Officer** Edinburgh, UK  
*Edinburgh University Judo Club* April 2024 – April 2025

- Provided support for the university judo team and helped to organise the travel logistics.

**Treasurer** Edinburgh, UK  
*Edinburgh University Jiu Jitsu Club* June 2020 – July 2021

- Planned the club's budget and managed its finances throughout the academic year.

**Co-Founder, Treasurer** Edinburgh, UK  
*ScotQuan* March 2019 – May 2020

- Co-founded a student-led data-consulting social enterprise, and managed its finances and business development.

## AWARDS

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First Place Award for SGPE Econometrics Project May 2021

Fettes Centre for Language and Culture Staff Above and Beyond Award July 2018