

# 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: Prof 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, dynamic programming, operational analysis
- Dissertation on the revealed preferences theory and college admissions; supervised by Prof Simon Clark

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## 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

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## 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

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## 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

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*Matched or Mismatched? Unpacking Gender Mismatch Gaps with Machine Learning* with C. Tealdi (2025), Available at SSRN.

*Skill vs. education types of labour mismatch and their association with earnings* (2024), Available at Accountancy, Economics, and Finance Working Papers

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

*An introduction to stacking regression for economists* with A. Ahrens, E. Ersoy, H. Li and M. E. Schaffer (2022), International Conference of the Thailand Econometrics Society (pp. 7-29). Springer, Cham.

## CONFERENCE PRESENTATIONS

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<b>2025</b>	SGPE Residential Conference	Crieff, UK
<b>2024</b>	Workshop on Frontiers of Macro – Labour Economics	Edinburgh, UK
	Scotland and Northern England Conference in Applied Microeconomics	Crieff, UK
	SGPE Residential Conference	Crieff, UK
<b>2023</b>	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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**Programming:** Python (pandas, NumPy, Matplotlib, scikit-learn, DoubleML), Stata, R, MATLAB

**Tools:** Git, Excel, MS Access, GAMS, L<sup>A</sup>T<sub>E</sub>X

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

**Datasets:** PIAAC, LFS, CPS, energy data

**Languages:** Russian (native), English (fluent)

## WORKSHOPS & TRAINING

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

## LEADERSHIP & VOLUNTEERING

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<b>Jiu Jitsu Instructor</b>	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	
<b>Team Captain and Wellbeing Officer</b>	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	
<b>Co-Founder and Treasurer</b>	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

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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>