

# VSEVOLOD IAKOVLEV

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email: v.iakovlev@hw.ac.uk  
webpage: vsevolodiakovlev.github.io

## POSITIONS

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### Postdoc Research Associate in Economics

Heriot-Watt University, TransiT

Edinburgh, UK

November 2025 – Present

- Digital Twinning for Transport Decarbonisation

### Research Assistant

Heriot-Watt University

Edinburgh, UK

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

## EDUCATION

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### PhD, Economics

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

Edinburgh, UK

September 2021 – September 2025

- Thesis title: *Essays on Labour Mismatch*
- Supervisors: Prof Cristina Tealdi, Dr Rachel Forshaw, Dr Erkal Ersoy
- Annual Reviewers: Prof Arnab Bhattacharjee, Prof Mark E. Schaffer

### MSc, Economics

University of Edinburgh, Scottish Graduate Programme in Economics

Edinburgh, UK

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

University of Edinburgh

Edinburgh, UK

September 2016 – May 2020

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

## TEACHING EXPERIENCE

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### 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), Revise and resubmit at *Labour Economics*, 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)

## INDUSTRY EXPERIENCE

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|--|--------------------------------|
| <b>Analyst Intern</b>  | Edinburgh, UK                  |
| <i>IC Select</i>   | <i>June 2020 – August 2020</i> |
| <ul style="list-style-type: none"><li>Built an MS Access database to centralise fiduciary manager selection data.</li><li>Conducted an analysis of fiduciary managers' reports and presented findings to the team.</li></ul> |                                |
| <b>Activity Leader</b>   | Edinburgh, UK                  |
| <i>Fettes Centre for Language and Culture</i>  | <i>July 2017, July 2018</i>    |
| <ul style="list-style-type: none"><li>Supervised students on campus, led project sessions and excursions, organised summer camp activities</li></ul>   |                                |

## 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> |
| <ul style="list-style-type: none"><li>Volunteered to lead junior and university-level jiu jitsu sessions; certified instructor under the Jiu Jitsu Foundation</li></ul> |                                 |
| <b>Team Captain and Wellbeing Officer</b>   | Edinburgh, UK                   |
| <i>Edinburgh University Judo Club</i>   | <i>April 2024 – April 2025</i>  |
| <ul style="list-style-type: none"><li>Provided support for the university judo team and helped to organise the travel logistics</li></ul>                               |                                 |
| <b>Co-Founder and Treasurer</b>   | Edinburgh, UK                   |
| <i>ScotQuan</i>   | <i>March 2019 – May 2020</i>    |
| <ul style="list-style-type: none"><li>Co-founded a student-led data-consulting social enterprise, and managed its finances and business development</li></ul>           |                                 |

## 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> |