



# Utku Bilen Demir

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**Home:** Steggasse 1/9, 1050 Wien (Austria)

## EDUCATION AND TRAINING

### B.A. in Political Science

*University of Vienna*

City: Vienna | Country: Austria | Level in EQF: EQF level 6 | Thesis: From Panopticon to Palantír: Algorithmic Governance in the Post-Disciplinary Societies

### B.Sc. in Mathematics

*University of Vienna* [ Current ]

City: Vienna | Country: Austria | Level in EQF: EQF level 6

### M.A. in Political Science

*University of Vienna*

City: Vienna | Country: Austria | Level in EQF: EQF level 7 | Thesis: Generative AI and the Institutions of Control: An Analysis of Algorithmic Meaning-Making and Subjectivation

## WORK EXPERIENCE

 **Zentrum für Soziale Innovation (ZSI)** – Vienna, Austria

City: Vienna | Country: Austria

### Project manager/ Research Assistant

[ 01/05/2022 – Current ]

### Projects

#### 1. FOR FREIGHT

- Description: The FOR-FREIGHT project aims to maximise the utilisation of multimodal freight transport capacity and reduce the average cost of freight transport through the development of novel solutions and their integration with legacy logistics systems.
- Duration: 09/2022 - **ongoing**
- Tasks: Work package lead (Innovation & Commercialisation) and various task leads, including
  - Socio-economic and environmental impact generation and maximisation of the FOR-FREIGHT platform by guaranteeing use cases address real world needs
  - Facilitating Training and Clustering activities across diverse stakeholder groups
  - Assist with the evaluation and validation of the entire FOR-FREIGHT platform offered as a Service from a social and environmental perspective.
- Output: In development

#### 2. Evaluation of the European Framework Programmes for Research and Innovation: Global Challenges and Industrial Competitiveness related to the Green Transition

- Description: This study evaluates the European Framework Programmes for Research and Innovation from the perspective of the Green Transition.
- Duration: 11/2021 - ongoing
- Tasks: Quantitative analysis and report writing.
- Output: In development

#### 3. AT-Nordamerika

- a. Analysis of the academic co-operation between the North American and Austrian organisations.
- b. Duration: 12/2021 - 04/2022
- c. Tasks: Data processing, bibliometric analysis, interactive visualisation of the results on a dashboard (R Shiny Dashboard).
- d. Output(s):
  - i. Dashboard: [https://utkubilendemir.shinyapps.io/atna\\_dashboard/](https://utkubilendemir.shinyapps.io/atna_dashboard/)

#### 4. **Policy Answers**

- a. Bibliometric research on co-publications between Western Balkan countries and the rest of the world.
- b. Duration: 1/2025 - 09/2025
- c. Output: *Classified*.

### **Zentrum für Soziale Innovation (ZSI) – Vienna, Austria**

City: Vienna | Country: Austria | Website: <https://www.zsi.at> | Email address: [demir@zsi.at](mailto:demir@zsi.at) | Name of unit or department: Research Policy & Development

#### **Research Assistant**

[ 2020 – 01/05/2022 ]

### **Projects**

#### 1. **KNoC: ISF Support to the Knowledge Network on China**

- a. Description: R&I Knowledge Network on China that connects European networks, centres, and experts
- b. Duration: 07/2020 - 09/2021
- c. Tasks: Analysis and visualisation of the co-publications between China and European countries.  
Granular analysis and categorisation of the publications via topic modelling approaches
- d. Output: *Classified*

#### 2. **KNOWMAK Support**

- a. Description: The KNOWMAK project, funded by European Union's Horizon 2020 research and innovation programme under grant agreement No. 726992, created an online tool to provide users with access to the underlying information, and to visualise the results. ZSI, the Centre for Social Innovation, was responsible for the development of the RISIS-KNOWMAK tool which is being hosted at knowmak.eu.
- b. Duration: 07/2020 - 12/2021
- c. Tasks: Further development and maintenance of the KNOWMAK Dashboard (developed with VueJS framework).
- d. Output: <https://knowmak.eu/>

#### 3. **LEAP-RE**

- a. Description: The LEAP-RE programme aligns with and responds to the AU-EU high-level policies and specific objectives of the CCSE Roadmap. It seeks to create a long-term partnership of African and European stakeholders in a quadruple helix approach. The role of ZSI is that of a contributing partner to support strategy development based on analysis of existing cooperation patterns.
- b. Duration: 0/2020 - **ongoing**
- c. Tasks: Bibliometric analysis of the renewable energy related research capacity in Africa.
- d. Output(s):
  - i. Dashboard: [http://bibliometrics.zsi.at/studies/2021\\_LEAP-RE/Dashboard\\_-\\_leap-re\\_T5.3\\_scientometric\\_analysis\\_-\\_ZSI.html](http://bibliometrics.zsi.at/studies/2021_LEAP-RE/Dashboard_-_leap-re_T5.3_scientometric_analysis_-_ZSI.html)
  - ii. Report: [http://bibliometrics.zsi.at/studies/2021\\_LEAP-RE/LEAP-RE\\_T5.3\\_scientometric\\_analysis\\_-\\_ZSI.html](http://bibliometrics.zsi.at/studies/2021_LEAP-RE/LEAP-RE_T5.3_scientometric_analysis_-_ZSI.html)

#### 4. **IntelComp**

- a. Description: IntelComp sets out to build an innovative Cloud Platform that offers Artificial Intelligence-based services to public administrators and policymakers across Europe for data- and evidence-driven policy design and implementation in the field of Science, Technology and Innovation (STI) policy.
- b. Duration: 01/2021 - 2024
- c. Tasks: Leading the living lab application.
- d. Output(s): In development

#### 5. **SIVOCs**

- a. Description: The project traces contributions of research funded by SNSF to social innovations and systematises these contributions in a valuation framework.
- b. Duration: 04/2021 - 05/2022

- c. Tasks: Preparation and statistical analysis of the survey, as well as an attempt to model social innovation based on the identified aspects from the project and survey results.

- d. Output: *Classified*

## 6. Additional methodological support at various projects

- a. Quantitative methods, data science
  - i. Data pre-processing, analysis, and visualisation
  - ii. Bibliometric research
  - iii. NLP methods
  - iv. ML applications with a focus on topic modelling
  - v. Development and maintenance of web-based data visualisation tools
- b. Qualitative methods:
  - i. Interview evaluations
  - ii. Co-creation workshops

 **Zentrum für Soziale Innovation (ZSI)** – Vienna, Austria

City: Vienna | Country: Austria

Links [http://bibliometrics.zsi.at/studies/2019\\_AT-CN/](http://bibliometrics.zsi.at/studies/2019_AT-CN/) | <https://doi.org/10.5281/zenodo.3758148>

## Data Science Support

[ 2019 – 2020 ]

Research support for a bibliometric study on **co-publications between Austria and China**

1. Data cleaning, transformation and analysis in R and Python.
2. Report preparation in Tex.
3. Interactive visualisation of the results.
4. Output(s):
  - a. Report: *Classified*.
  - b. Interactive Dashboard: [http://bibliometrics.zsi.at/studies/2019\\_AT-CN/](http://bibliometrics.zsi.at/studies/2019_AT-CN/)

## LANGUAGE SKILLS

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**Mother tongue(s):** Turkish

**Other language(s):**

**German**

**LISTENING C2 READING C2 WRITING C2**

**SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2**

**English**

**LISTENING C2 READING C2 WRITING C2**

**SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2**

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## SKILLS

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R / Python / JavaScript / JavaScript Frameworks (VueJS) / Mathematica/Wolfram Language / Matlab / LaTeX / HTML / Git / Linux expertise / SQL / Postgresql / Julia / Stata / SPSS

## JOB-RELATED SKILLS

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**Job-related skills**

1. Qualitative and quantitative research methods
2. Mathematical and statistical programming; descriptive and inferential statistics
3. Natural language processing (NLP) methods and machine learning applications, with emphasis on topic modelling, generative AI, and transformer architectures
4. Political theory, critical theory, and post-structuralism; epistemology of AI and digital governance
5. Policy analysis, comparative politics, and bibliometrics

## COMMUNICATION AND INTERPERSONAL SKILLS

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### Communication and interpersonal skills

Effective communicator with experience facilitating collaboration across interdisciplinary teams and international settings. Skilled in stakeholder engagement, co-creation workshops, and translating complex research into accessible formats.