

# Tobias Schimanski

Doctoral Researcher at the University of Zurich  
Affiliated Researcher at the University of Oxford  
M.Sc. International Information Systems

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**Languages:** English, German, French  
(Last update: 12/12/2023)

## Research objective

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My research objective is the application of Natural Language Processing in order to identify companies that are really sustainable and those who are rather greenwashing. I want to advance the knowledge about sustainability activities of firms and contribute to effective control mechanisms.

## Education

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| 02/2023-date    | <b>PhD Student, Institute for Banking and Finance<br/>University of Zurich</b> <ul style="list-style-type: none"><li>- Focus on the NLP for Sustainable Finance</li></ul>  |
| 10/2020-12/2022 | <b>Master of Science, International Information Systems<br/>Friedrich-Alexander-University Nuremberg-Erlangen (FAU)</b> <ul style="list-style-type: none"><li>- Focus on Data Science and Machine Learning</li><li>- Master Thesis: Deep Learning and ESG: Analysing the link between a firms' ESG communication in annual reports and its ESG ratings</li><li>- Final grade: 1.22 (distinction)</li></ul> |
| 10/2016-09/2020 | <b>Bachelor of Science, Industrial Engineering<br/>Friedrich-Alexander-University Nuremberg-Erlangen (FAU)</b> <ul style="list-style-type: none"><li>- Focus on Technical Mechanics, Statistics and Finance</li><li>- Bachelor Thesis: Digitalization of enterprises: advantageousness and measurement from an investor perspective</li><li>- Final grade: 1.4 (distinction)</li></ul>                     |

## Research Experience

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| 06/2023-date    | <b>University of Oxford, NLP for Sustainable Finance Programme</b><br>Affiliated Researcher |
| 02/2022-01/2023 | <b>FAU Nuremberg-Erlangen, Chair for Data Analytics</b><br>Research Assistant               |

## Teaching

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- 09/2023                      **University of Zurich, Executive Education**  
Teaching "Applying Natural Language Processing to Analyze Corporate Climate Disclosure"
- 04/2021-04/2022            **FAU Nuremberg-Erlangen, Schöller Endowed Chair for Information Systems, Digitalization in Business and Society**  
Creating Exercise  
Teaching Data Management & Analysis Exercise
- 11/2020-10/2021            **FAU Nuremberg-Erlangen, Chair of Statistics and Econometrics**  
Teaching Statistics Exercise
- 10/2019-03/2020            **FAU Nuremberg-Erlangen, Institute of Applied Mechanics**  
Teaching Statics and Strength of Materials Exercise

## Publications

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### 2023:

**Schimanski, Tobias** and Bingler, Julia and Hyslop, Camilla and Kraus, Mathias and Leippold, Markus (2023): [ClimateBERT-NetZero: Detecting and Assessing Net Zero and Reduction Targets](#). In: **Empirical Methods in Natural Language Processing (EMNLP)**, Singapore, 6 December 2023 - 10 December 2023. Association for Computational Linguistics, Forthcoming.

Ni, Jingwei and Bingler, Julia and Colesanti Senni, Chiara and Kraus, Mathias and Gostlow, Glen and **Schimanski, Tobias** and Stambach, Dominik and Vaghefi, Saeid and Wang, Qian and Webersinke, Nicolas and Wekhof, Tobias and Yu, Tingyu and Leippold, Markus (2023): [chatReport: Democratizing Sustainability Disclosure Analysis through LLM-based Tools](#). In: System Demonstration Track of **Empirical Methods in Natural Language Processing (EMNLP)**, Singapore, 6 December 2023 - 10 December 2023. Association for Computational Linguistics, Forthcoming.

Vaghefi, Saeid and Wang, Qian and Muccione, Veruska and Ni, Jingwei and Kraus, Mathias and Bingler, Julia and **Schimanski, Tobias** and Colesanti Senni, Chiara and Webersinke, Nicolas and Huggel, Christian and Leippold, Markus (2023): [ChatClimate: Grounding Conversational AI in Climate Science](#). **Nature Communications Earth & Environment**. Forthcoming.

## Working Papers

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### 2023:

**Schimanski, Tobias** and Reding, Andrin and Reding, Nico and Bingler, Julia and Kraus, Mathias and Leippold, Markus (2023): [Bridging the Gap in ESG Measurement: Using NLP to Quantify Environmental, Social, and Governance Communication](#). **Revise & Resubmit at Finance Research Letters**.

Kraus, Mathias and Bingler, Julia and Leippold, Markus and **Schimanski, Tobias** and Colesanti Senni, Chiara and Stammach, Dominik and Vaghefi, Saeid and Webersinke, Nicolas (2023): [Enhancing Large Language Models with Climate Resources](#). **Swiss Finance Institute Research Paper No. 23-99**.

## **Additional Work**

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### **2024:**

- **Co-organizer** of the “ClimateNLP” workshop at the **Association for Computational Linguistics (ACL)** conference in Bangkok, 11-16 August 2024.
- **Co-organizer and panel discussant** in the workshop “Accelerating Climate Change Action Through Machine Learning” at the **Applied Machine Learning Days (AMLDD)** in Lausanne, 23-26 March 2024.

### **2023:**

- **Contributor** to the open-source tool platform chatclimate.ai for the [ChatClimate](#) and [ChatReport](#) tools.
- **Contributor** to the WWF concept note on greenwashing indicators:

Bingler, Julia and Colesanti Senni, Chiara and Fixler, Desiree and **Schimanski, Tobias**: [Net Zero Transition Plans: Red Flag Indicators to Assess Inconsistencies and Greenwashing](#).

- Co-organizer of the Birds-of-a-Feather session on “NLP for Climate Change” at the **Empirical Methods in Natural Language Processing (EMNLP) conference**, Singapore, 6-10 December 2023.