

# Kristina Gligorić

gligoric@stanford.edu

<https://kristinagligoric.com/>

CV

## Education

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### Stanford

*Postdoctoral Scholar, Computer Science*

*Mentor: Prof. Dan Jurafsky*

Dec. 2022 – Present

*Stanford CA, US*

### EPFL

*PhD in Computer and Communication Sciences*

*Mentor: Prof. Robert West*

Sep. 2017 – Nov. 2022

*Lausanne, Switzerland*

PhD Thesis: *Computational Approaches for Studying Dietary Behaviors with Digital Traces*

Full text available at: [URL](#)

Thesis Committee: *Munmun De Choudhury, Tim Althoff, Daniel Gatica-Perez, Martin Jaggi, Robert West*

### University of Novi Sad

*Bachelor with Honors in Electrical and Computer Engineering*

Sep. 2013 – Jul. 2017

*Novi Sad, Serbia*

## Selected awards

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**Rising Star in EECS (MIT), 2024**

**Rising Star in Data Science (University of Chicago), 2023**

**EPFL Thesis Distinction (top 8% EPFL theses), 2023**

**Cornell Future Faculty Symposium Scholar, 2023**

**ICWSM Best Reviewer Award, 2021, 2023**

**CSCW Special Recognition for Outstanding Review, 2022**

**CSCW Best Paper Honorable Mention Award, 2021**

**EPFL Dean's Recognition for Outstanding Performance, 2019, 2021**

**EPFL Best Teaching Assistant Award, 2018**

**EPFL Doctoral Fellowship for PhD Program in Computer Science, 2017**

**University of Novi Sad Award for Excellent Performance (top 2% students), 2015–2018**

## Grants

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Swiss National Science Foundation Postdoc Grant, 2022 (**\$130,000**)

Stanford Plant Based Diet Initiative Seed Grant Funding, 2024 (Co-PI, **\$10,000**)

Stanford HAI Student Affinity Group lead (SocialNLP), 2023 (**\$1,000**)

ICWSM Student Grant, 2018, 2021 (**\$1,000**)

## Professional experience

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### Google

*Research Intern, mentors: Shailesh Bavadekar and Dr. Evgeniy Gabrilovich*

Jul. 2019 - Oct. 2019

*Palo Alto CA, US*

### Max Planck Institute for Software Systems

*Undergraduate Research Intern, mentor: Prof. Krishna P. Gummadi*

Jul. 2016 - Oct. 2016

*Saarbrücken, Germany*

## Research areas: Computational Social Science, AI & Society

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In my research, I develop computational approaches to address societal issues such as online civility and sustainability. I leverage large language models, data science, and causal inference. I also reveal and mitigate the biases, limitations, and social harms of AI in social contexts.

My work has been published in top **computational social science (CSS)** venues: **broad audience interdisciplinary journals** (*PNAS*, *Nature Communications*, *Harvard Data Science Review*) and **top computer science conferences** focused on CSS (*ICWSM*, *CSCW*) and methodological contributions within the CSS (*ACL*\*).

## Manuscripts under review and in preparation

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\*: Equal contributions, †: Advised students.

1. What can Large Language Models do for Sustainable Food?  
Anna Thomas\*†, **Kristina Gligorić**\*, Adam Yee, Andrew Mayne, Maya Mathur, and Dan Jurafsky.  
Manuscript in preparation.
2. The Impact of Meat-Free Days on the Carbon Footprint of a Campus-wide Food System.  
Giuseppe Russo, **Kristina Gligorić**, Mika Senghaas, Vincent Moreau, and Robert West.  
Manuscript in preparation.
3. Large-Scale Field Interventions to Foster Inclusive Moderation in Online Communities.  
MarYam Hamedani\*, **Kristina Gligorić**\*, Cinoo Lee\*, Xuan Zhao, Hazel Markus, Jennifer L. Eberhardt.  
Manuscript in preparation.
4. Food Choice Mimicry on a Large University Campus.  
**Kristina Gligorić**, Arnaud Chiolero, Emre Kiciman, Ryen W. White, Eric Horvitz, and Robert West.  
Preprint. Full text available at: [URL](#).
5. Can Unconfident LLM Annotations Be Used for Confident Conclusions?  
**Kristina Gligorić**\*, Tijana Zrnić\*, Cinoo Lee\*, Emmanuel Candès, and Dan Jurafsky.  
Preprint. Full text available at: [URL](#).

## Peer-reviewed publications

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\*: Equal contributions, †: Advised students.

1. People who share encounters with racism are silenced online by humans and machines, but a guideline-reframing intervention holds promise.  
Cinoo Lee\*, **Kristina Gligorić**\*, Ria Kalluri\*, Maggie Harrington\*, Esin Durmus, Kiara Sanchez, Nay San, Danny Tse†, Justine Zhang, Xuan Zhao, MarYam Hamedani, Hazel Markus, Dan Jurafsky, Jennifer L. Eberhardt.  
Proceedings of the National Academy of Sciences (**PNAS**), 2024.  
Full text available at: [URL](#).
2. In-class Data Analysis Replications: Teaching Students while Testing Science.  
**Kristina Gligorić**\*, Tiziano Piccardi\*, Jake Hofman, Robert West.  
Harvard Data Science Review (**HDSR**), 2024.  
Also presented at IC<sup>2</sup>S<sup>2</sup> 2023 (oral).  
Full text available at: [URL](#).
3. Measuring and Shaping the Nutritional Environment via Food Sales Logs: Case Studies of Campus-Wide Food Choice and a Call to Action.  
**Kristina Gligorić**, Robin Zbinden†, Arnaud Chiolero, Emre Kiciman, Ryen W. White, Eric Horvitz, Robert West.  
**Frontiers in Nutrition**, 2024.  
Full text available at: [URL](#).

4. NLP Systems That Can't Tell Use from Mention can Censor Counterspeech, but Teaching the Distinction Helps.  
**Kristina Gligorić**, Myra Cheng†, Lucia Zheng†, Esin Durmus, Dan Jurafsky.  
 Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics (**NAACL**), 2024.  
 Also presented at IC<sup>2</sup>S<sup>2</sup> 2024 (oral).  
 Full text available at: [URL](#).
5. Grounding Gaps in Language Model Generations.  
 Omar Shaikh\*†, **Kristina Gligorić\***, Ashna Khetan†, Matthias Gerstgrasser, Diyi Yang, Dan Jurafsky.  
 Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics (**NAACL**), 2024.  
 Full text available at: [URL](#).
6. Othering and low prestige framing of immigrant cuisines in US restaurant reviews and large language models.  
 Yiwei Luo†, **Kristina Gligorić**, Dan Jurafsky.  
 Proceedings of the International AAAI Conference on Web and Social Media (**ICWSM**), 2024.  
 Also presented at IC<sup>2</sup>S<sup>2</sup> 2023 (oral).  
 Full text available at: [URL](#).
7. AnthroScore: A Computational Linguistic Measure of Anthropomorphism.  
 Myra Cheng†, **Kristina Gligorić**, Tiziano Piccardi, Dan Jurafsky.  
 Proceedings of the Conference of the European Chapter of the Association for Computational Linguistics (**EACL**), 2024.  
 Also presented at IC<sup>2</sup>S<sup>2</sup> 2024 (oral).  
 Full text available at: [URL](#).
8. Revealed versus potential spatial accessibility of healthcare and changing patterns during the COVID-19 pandemic.  
**Kristina Gligorić\***, Chaitanya Kamath\*, Daniel Weiss\*, Shailesh Bavadekar, Yun Liu, Tomer Shekel, Kevin Schulman\*, and Evgeniy Gabrilovich\*.  
**Nature Communications Medicine**, 2023.  
 Full text available at: [URL](#).
9. Linguistic effects on news headline success: Evidence from thousands of online field experiments (Registered Report).  
**Kristina Gligorić**, George Lifchits†, Robert West and Ashton Anderson.  
**PLOS ONE**, 2023.  
 Full text available at: [URL](#).
10. Biased Bytes: On the Validity of Estimating Food Consumption from Social Media Images.  
**Kristina Gligorić**, Irena Djordjevic† and Robert West.  
 Proceedings of the ACM on Human-Computer Interaction (**CSCW**), 2022.  
 Also presented at IC<sup>2</sup>S<sup>2</sup> 2023 (oral).  
 Full text available at: [URL](#).
11. Anticipated versus Actual Effects of Platform Design Change: A Case Study of Twitter's Character Limit.  
**Kristina Gligorić**, Justyna Czestochowska†, Ashton Anderson and Robert West.  
 Proceedings of the ACM on Human-Computer Interaction (**CSCW**), 2022.  
 Also presented at IC<sup>2</sup>S<sup>2</sup> 2023 (poster).  
 Full text available at: [URL](#).
12. Population-scale dietary interests during the COVID-19 pandemic.  
**Kristina Gligorić**, Arnaud Chiolero, Emre Kiciman, Ryen W White and Robert West.  
**Nature Communications**, 2022.  
[Featured in Public Health Editors' Highlights.](#)

Also presented at IC<sup>2</sup>S<sup>2</sup> 2022 (oral).

Full text available at: [URL](#).

13. On the Context-Free Ambiguity of Emoji.  
Justyna Czesochowska\*†, **Kristina Gligorić\***, Maxime Peyrard, Yann Mentha†, Michał Bien†, Andrea Grütter, Anita Auer, Aris Xanthos and Robert West.  
Proceedings of the International AAAI Conference on Web and Social Media (**ICWSM**), 2022.  
Full text available at: [URL](#).
14. Laughing Heads: Can Transformers Detect What Makes a Sentence Funny?  
Maxime Peyrard, Beatriz Borges†, **Kristina Gligorić** and Robert West.  
Proceedings of the International Joint Conference on Artificial Intelligence (**IJCAI**), 2021.  
Full text available at: [URL](#).
15. Formation of Social Ties Influences Food Choice: A Campus-wide Longitudinal Study.  
**Kristina Gligorić**, Ryen W White, Emre Kiciman, Eric Horvitz, Arnaud Chiolero and Robert West.  
Proceedings of the ACM on Human-Computer Interaction (**CSCW**), 2021.  
**Best Paper Honorable Mention Award.**  
Also presented at IC<sup>2</sup>S<sup>2</sup> 2021 (oral).  
Full text available at: [URL](#).
16. Linguistic effects on news headline success: Evidence from thousands of online field experiments (Registered Report Protocol).  
**Kristina Gligorić**, George Lifchits†, Robert West and Ashton Anderson.  
**PLOS ONE**, 2021.  
Also presented at IC<sup>2</sup>S<sup>2</sup> 2022 (poster).  
Full text available at: [URL](#).
17. Sudden Attention Shifts on Wikipedia Following COVID-19 Mobility Restrictions.  
Manoel Horta Ribeiro\*, **Kristina Gligorić\***, Maxime Peyrard\*, Florian Lemmerich, Markus Strohmaier and Robert West.  
Proceedings of the International AAAI Conference on Web and Social Media (**ICWSM**), 2021.  
Also presented at IC<sup>2</sup>S<sup>2</sup> 2021 (oral).  
Full text available at: [URL](#).
18. Global maps of travel time to healthcare facilities.  
Daniel Weiss, Andrew Nelson, Camilo Vargas-Ruiz, **Kristina Gligorić**, Shailesh Bavadekar, Evgeniy Gabrilovich, Amelia Bertozzi-Villa, Jennifer Rozier, Harry Gibson, Tomer Shekel, Chaitanya Kamath, Allison Lieber, Kevin Schulman, Yang Shao, Vesa Qarkaxhija, Anita Nandi, Suzanne Keddie, Susan Rumisha, Punam Amratia, Rohan Arambepola, Elisabeth Chestnutt, Justin Millar, Tasmin Symons, Ewan Cameron, Katerine Battle, Samir Bhatt and Peter Gething.  
**Nature Medicine**, 2020.  
Full text available at: [URL](#).
19. Causal Effects of Brevity on Style and Success in Social Media.  
**Kristina Gligorić**, Ashton Anderson and Robert West.  
Proceedings of the ACM on Human-Computer Interaction (**CSCW**), 2019.  
Also presented at IC<sup>2</sup>S<sup>2</sup> 2019 (oral).  
Full text available at: [URL](#).
20. Comparing and Developing Tools to Measure the Readability of Domain-Specific Texts.  
Elissa Redmiles, Lisa Maszkiewicz, Emily Hwang, Dhruv Kuchhal, Everest Liu, Miranda Morales, Denis Peskov, Sudha Rao, Rock Stevens, **Kristina Gligorić**, Sean Kross, Michelle Mazurek and Hal Daume III.  
Proceedings of the Conference on Empirical Methods in Natural Language Processing (**EMNLP**), 2019.  
Full text available at: [URL](#).

21. Message Distortion in Information Cascades.  
Manoel Ribeiro†, **Kristina Gligorić** and Robert West.  
Proceedings of the ACM on Web Conference (**TheWebConf**), 2019.  
Also presented at IC<sup>2</sup>S<sup>2</sup> 2019 (oral).  
Full text available at: [URL](#).
22. How Constraints Affect Content: The Case of Twitter’s Switch from 140 to 280 Characters.  
**Kristina Gligorić**, Ashton Anderson and Robert West.  
Proceedings of the International AAAI Conference on Web and Social Media (**ICWSM**), 2018.  
Full text available at: [URL](#).
23. Visible Light Communication Based Indoor Positioning via Compressed Sensing.  
**Kristina Gligorić**, Manisha Ajmani, Dejan Vukobratović and Sinan Sinanović.  
**IEEE Communication Letters**, 2018.  
Full text available at: [URL](#).

## Teaching

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Social NLP reading group (Stanford), Co-organized with Prof. Diyi Yang

Winter 2022-2023, Spring 2022-2023, Fall 2023-2024, Winter 2023-2024, Spring 2023-2024

Applied Data Analysis (EPFL CS-401), **Head TA (300+ students, coordinating 20 teaching assistants)**

Fall 2018-2019, Fall 2019-2020, Fall 2020-2021, Fall 2021-2022

**EPFL Best Teaching Assistant Award**

**Developed a replication activity and published the results (HDSR)**

Data Visualization (EPFL COM-480), Teaching Assistant (100+ students)

Spring 2019-2020, Spring 2020-2021

Analysis II (EPFL MATH-106), Teaching Assistant

Spring 2018-2019

## Leadership and Service

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### Organization of conferences

CSCW 2023 Meta Co-chair

WebSci 2023 Proceedings Chair

ICWSM 2022 Sponsorship Co-chair

ICWSM 2021 Student Volunteer

### Conference Program Area Chair

*ICWSM* 2023, 2024

*CSCW* 2024, 2024

*EMNLP* 2023

### PC Member

*FAccT* 2024, IC<sup>2</sup>S<sup>2</sup> 2023, 2024 *WSDM* 2023, *TheWebConf* 2022, 2023, *ICWSM* 2021, 2022, 2023, *CIKM* 2020, 2021, *WebSci* 2022, 2023, *EMNLP* 2021, *ACL* 2021, *Wiki Workshop @ TheWebConf* 2023, *Wiki Workshop @ TheWebConf* 2020, 2021, 2022, *Euro CCS* 2018, 2019

### Ad-hoc Reviewer

*ACL Student Research Workshop* 2024, *Journal of Statistics and Data Science Education* 2024, *COLM* 2024, *Nature Communications Medicine* 2023, *TheWebConf* 2020, *CSCW* 2019, 2021, 2022, *ICWSM* 2020, 2022, *ACL* 2020, EPJ Data Science

### Institutional responsibilities

PhD admissions committee Jan. 2022 (EPFL School of Computer and Communication Sciences)

## Mentorship

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To date, I advised 40+ PhD, master, undergraduate, and research internship students. For co-authored articles with mentored students, please see Publications.

### Stanford PhD Students

**2024:** Anna Thomas, Lucia Zheng, Myra Cheng

**2023:** Omar Shaikh, Yiwei Luo

### Stanford Summer Research Interns

**2024:** Sofia Kim

### Stanford Undergraduate Research projects

**2024:** Bolu Aminu, Michael Brockman, Sofia Kim, Caeley Woo, and Ashna Khetan

**2023:** Danny Tse, Emily Wonyoung Park, and Natalie Carrie Wang

### EPFL Master Student Research Projects

**2021:** Francis Murray, Marie Biolkova, Andrea Perozziello

**2020:** Justyna Czestochowska, Michał Bień, Jeremy Plassmann, Jonathan Labhard, Robin Zbinden, Nicolas Jomeau, Davit Martirosyan, Yann Mentha, George Lifchits

**2019:** Andre Adel Alphonse Ghattas, Beatriz Borges, Andrea Veneziano, Leonore Guillain, Maria-Smaranda Pandele

**2018:** Martin Milenkoski, Nicolas Zimmermann, Viktor Janevski, Stratos Triantafyllou

**2017:** Nuno Goncalves, Timothee Lottaz, Boris Fluckiger

### EPFL Summer Research Interns

**2021:** Irena Djordjevic

**2020:** Gorjan Popovski

**2018:** Manoel Ribeiro

### EPFL Undergraduate Student Research Projects

**2020:** Mohamed Elasmfoury, Loic Houmard

## Invited talks

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1. May 2024, **USC**, Marina del Rey (Information Sciences Institute AI Seminar):  
Invited talk, *AI for Fostering Constructive Online Conversations*
2. May 2024, **EPFL Alumni West Coast Chapter**, San Francisco:  
Invited talk, *AI for Fostering Constructive Online Conversations*
3. May 2024, **Stanford CS 224C: NLP for Computational Social Science Class**:  
Invited talk, *AI for Fostering Constructive Online Conversations*
4. Apr 2024, **Université Grenoble Alpes**, (NLP team GetAlp Seminar):  
Invited talk, *AI for Fostering Constructive Online Conversations*
5. Apr 2024, **Cambridge University**, (Language Technology Lab Seminar):  
Invited talk, *AI for Fostering Constructive Online Conversations*
6. Jan 2024, **University of Toronto**:  
Invited talk at Toronto Data Workshop
7. Dec 2023, **Stanford Race and NLP (CS 329R) Class**:  
Invited talk
8. Feb 2023, **UC Berkeley** (NLP Seminar):  
Invited panelist, The Cassandra Project roundtable on *What big data and big models bring to the table*

9. Apr 2022, **EPFL**, Lausanne:  
The Applied Machine Learning Days EPFL (Microsoft Swiss Joint Research Center track)
10. Feb 2022, **The Wikimedia Research Showcase**
11. Jun 2021, **EPFL**:  
The Applied Machine Learning Days (AI & the response to the COVID-19 pandemic track)

## Contributions to diversity and inclusion

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### **ICWSM 2022 Sponsorship Chair**

Raising funds to support diversity and inclusion efforts and registration fee subsidies for participants from under-represented groups.

### **Teaching and mentoring high-school students**

Undergraduate Teaching Assistant at Petnica Science Center, Serbia, 2014 - 2017

Mentored summer projects, led tutorials including calculus, linear algebra, and programming languages.

### **Girls Coding**

Volunteer at activities teaching girls between 9 and 16 years old to code.

## References

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1. **Prof. Dan Jurafsky**  
Professor of Computer Science, Reynolds Professor in Humanities, and Professor of Linguistics  
Stanford University  
contact: [jurafsky@stanford.edu](mailto:jurafsky@stanford.edu)
2. **Prof. Robert West**  
Associate Professor of Computer Science  
EPFL  
contact: [robert.west@epfl.ch](mailto:robert.west@epfl.ch)
3. **Dr. Eric Horvitz**  
Chief Scientific Officer  
Microsoft  
contact: [horvitz@microsoft.com](mailto:horvitz@microsoft.com)
4. **Prof. Ashton Anderson**  
Associate Professor of Computer Science  
University of Toronto  
contact: [ashton@cs.toronto.edu](mailto:ashton@cs.toronto.edu)
5. **Prof. Jennifer L. Eberhardt**  
The William R. Kimball Professor of Organizational Behavior and Professor of Psychology  
Stanford University  
contact: [eberhard@stanford.edu](mailto:eberhard@stanford.edu)