

Claudia Wagner

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RESEARCH INTERESTS

Data and Network Science, Data and Text Mining, Machine Learning and Algorithmic Bias, Bias and Inequality in Social Networks and Socio-Technical Systems, Collective Attention and Opinion Mining.

BIO

Claudia Wagner is an assistant professor (W1) in Computer Science at University Koblenz-Landau and the interim Scientific Director of the department Computational Social Science at GESIS - Leibniz Institute for the Social Sciences (32 employees). From 2016 - 2017 Wagner was the team lead of team Data Science at GESIS that is comprised of of four post docs and two PhD students and investigates social phenomena in offline and online social networks and social media. Wagner received her PhD from Graz University of Technology in 2013, before she joined GESIS as postdoctoral researcher (2013-2016). Prior to that she conducted several international research internships, among others at HP labs (Social Computation Lab, Feb-April 2013), Xerox PARC (Augmented Social Cognition Lab, Jun-Sept 2011) and the Open University (Knowledge Media Institute, Oct 2008 - Feb 2009 and Mar 2011 - Apr 2011). To date, she has been awarded substantial research funding either as a PI or co-PI, was awarded with a DOC-fFORTE fellowship from the Austrian Academy of Science and received three best paper awards (at SocialCom 2012, ICWSM 2014 and WebSci 2015). She has published full papers in top tier conference (e.g., WWW, ICWSM, Web Science) and high-impact journals (e.g., IEEE Intelligent System Journal, EPJ Data Science). Wagner gave invited talks at scientific conferences, workshops, summer schools and universities. Her work has been covered by MIT Technology Review and other mainstream media.

CURRENT APPOINTMENT

GESIS - Leibniz Institute for the Social Sciences, Interim Scientific Director of the department Computational Social Science, Cologne, Germany May 2017

University Koblenz-Landau, W1 Professor, Computer Science department, Koblenz, Germany Apr 2016

PAST APPOINTMENTS

GESIS - Leibniz Institute for the Social Sciences, Team lead Data Science, Cologne, Germany Apr 2016 – May 2017

GESIS - Leibniz Institute for the Social Sciences, Postdoctoral Researcher, Cologne, Germany Oct 2013 – Apr 2016

University of Koblenz-Landau, Adjunct Lecturer, Koblenz, Germany Oct 2013 – Apr 2016

Yahoo Labs, Visiting Researcher, Barcelona, Spain Oct 2015 – Dec 2015

Indiana University, Visiting Researcher, Bloomington, IN, USA Oct 2015 – Oct 2015

Hewlett-Packard, Intern at Social Computing Lab, Palo Alto, California, USA Feb 2013 – Apr 2013

Xerox PARC, intern at Augmented Social Cognition Lab, Palo Alto, California, USA Jul 2011 – Sep 2011

Joanneum Research, Research Student, Graz, Austria Jul 2007 – Oct 2013

The Open University, Visiting Researcher, Knowledge Media Institute, Milton Keynes, UK Mar 2011 – Apr 2011

The Open University, Research Student,
Knowledge Media Institute, Milton Keynes, UK Oct 2008 – Feb 2009

ACADEMIC RECORD

University of Koblenz-Landau, Koblenz, Germany
Evaluation of W1 Professorship (self-report submitted in March 2018) Mar 2018

Graz University of Technology, Graz, Austria
Doctor of Philosophy (PhD) in Computer Science (with distinction) Oct 2009 – Nov 2013
Master of Science (MS) in Software Development and Management Oct 2006 – Apr 2009

AWARDS

Best Paper at the ACM Web Science Conference (WebSci) Jun 2015
Best Paper at the International Conference on Weblogs and Social Media (ICWSM) Jun 2014
Best Paper at the Making Sense of Microposts
Workshop at the International World Wide Web Conference (WWW) May 2013
Best Paper at the International Conference on Social Computing (SocialCom) Sep 2012
Best Student Paper at the Extended Semantic Web Conference (ESWC) May 2010

GRANTS

DFG (under review) (~1.573.299,34 EUR, own share: 588.957,44 EUR))
• Understanding Behavioural Changes Induced by Disease Outbreaks
European Social Survey (~44.982 EUR, own share: 22.500 EUR) Jan 2018 – Jun 2018
• Development of a methodology to measure media context in the European Social Survey (ESS)
Volkswagen Foundation (~850.000 EUR, own share: 187.033) Feb 2017 – Feb 2021
• The Emergence of Inequality in Social Groups
Volkswagen Foundation (~250.000 EUR) Mar 2017 – Dec 2019
• Summer School Series On Methods for Computational Social Science
DOC-fFORTE fellowship (~80.000 EUR) Feb 2011 – Oct 2013
• Emergent Structure, Semantics and Usage of Social Stream

PUBLICATIONS JOURNALS

M. Jadidi, F. Karimi and C. Wagner, *Gender Disparities in Science? Dropout, Productivity, Collaborations and Success of Male and Female Computer Scientists*, *Advances in Complex Systems*, vol. 20, no. 0, pp. 84–88, Jun 2017.

C. Wagner, E. Graells-Garrido, and D. Garcia and F. Menczer, *Women through the glass ceiling: gender asymmetries in Wikipedia*, *EPJ Data Science Journal*, vol. 5, no. 5, Mar 2016.

M. Strohmaier and C. Wagner, *Computational Social Science for the World Wide Web*, *IEEE Intelligent Systems*, vol. 29, no. 5, Sep 2014.

C. Wagner, P. Singer, M. Strohmaier, and B. Huberman, *Semantic Stability and Implicit Consensus in Social Tagging Streams*, *IEEE Transactions on Computational Social Systems*, vol. 1, no. 1, pp. 108–120, Mar 2014.

Milena Tsvetkova, Claudia Wagner, and Andrew Mao, *Inequality is Higher in Fixed Clustered Networks with Punishment Institutions*, submitted to *Nature Human Behavior*, Feb 2018.

Eun Lee, Fariba Karimi, Hang-Hyun Jo, Markus Strohmaier, and Claudia Wagner. *Homophily explains perception biases in social networks*, submitted to *Science Advances*, Mar 2018.

Fariba Karimi, Mathieu Génois, Claudia Wagner, Philipp Singer, and Markus Strohmaier. *Visibility of minorities in social networks*, submitted to *Nature Human Behavior*, Mar 2018.

PUBLICATIONS CONFERENCES

- C. Wagner, O. Zagovora, T. Sennikova and F. Karimi, *Collective Attention towards Scientists and Research Topics*, in *Proceedings of ACM Web Science Conference*, Amsterdam, Netherlands, May 2018.
- O. Zagovora, F. Floeck and C. Wagner, (Weitergeleitet von Journalistin): *The Gendered Presentation of Professions on Wikipedia*, in *Proceedings of ACM Web Science Conference*, Troy, NY, USA, Jun 2017.
- C. Wagner, P. Singer, F. Karimi, J. Pfeffer and M. Strohmaier, *Sampling from Social Networks with Attributes*, in *Proceedings of the 26th International World Wide Web Conference (WWW 2017)*, Perth, Australia, Apr 2017. (acceptance rate 14%)
- A. Hannak, C. Wagner, D. Garcia, A. Mislove, M. Strohmaier and C. Wilson, *Bias in Online Freelance Marketplaces: Evidence from TaskRabbit and Fiverr*, in *Proceedings of the 20th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW2017)*, Portland, Oregon, USA, Feb 2017.
- F. Karimi, C. Wagner, F. Lemmerich, M. Jadidi and M. Strohmaier, *Inferring Gender from Names on the Web: A Comparative Evaluation of Gender Detection Methods*, in *Proceedings of the 25th International World Wide Web Conference (WWW 2017)*, Montreal, Canada, Apr 2016. (acceptance rate 14%)
- C. Wagner, D. Garcia, M. Jadid, and M. Strohmaier, *It's a Man's Wikipedia? Assessing Gender Inequality in an Online Encyclopedia*, in *Proceedings of the International AAAI Conference on Web and Social Media (ICWSM)*, Oxford, UK, May 2015. (acceptance rate 18.37%)
- P. Laufer, C. Wagner, F. Flöck, and M. Strohmaier, *Mining cross-cultural relations from Wikipedia - A study of 31 European food cultures*, in *Proceedings of ACM Web Science conference*, Oxford, UK, Jun 2015. (**best paper award**) (acceptance rate ~20%)
- H. Lietz, C. Wagner, A. Bleier, and M. Strohmaier, *When Politicians Talk: Assessing Online Conversational Practices of Political Parties on Twitter*, in *Proceedings of the International AAAI Conference on Web and Social Media (ICWSM)*, Ann Arbor, MI, USA, May 2014. (**best paper award**) (acceptance rate 22,93%)
- C. Wagner, P. Singer, B. Huberman, and M. Strohmaier, *Semantic Stability in Social Tagging Streams*, in *Proceedings of the World Wide Web conference (WWW)*, Seoul, Korea, Mar 2014. (acceptance rate 12.92%)
- C. Wagner, P. Singer, and M. Strohmaier, *Spatial and Temporal Patterns of Online Food Preferences*, in *Proceedings of the World Wide Web conference (WWW)*, Seoul, Korea, Mar 2014.
- C. Wagner, S. Asur, and J. Hailpern, *Religious Politicians and Creative Photographers: Automatic User Categorization in Twitter*, in *Proceedings of the ASE/IEEE International Conference on Social Computing (SocialCom)*, Washington DC, USA, Sep 2013. (acceptance rate 12.92%)
- J. Schantl, C. Wagner, R. Kaiser, and M. Strohmaier, *The Utility of Social and Topical Factors in Anticipating Repliers in Twitter Conversations*, in *Proceedings of ACM Web Science conference (WebSci)*, Paris, France, May 2013.
- S. Mitter, C. Wagner, and M. Strohmaier, *Understanding The Impact Of Socialbot Attacks In Online Social Networks*, in *Proceedings of ACM Web Science conference (WebSci)*, Paris, France, May 2013.
- S. Mitter, C. Wagner, and M. Strohmaier, *A Categorization Scheme for Socialbot Attacks In Online Social Networks*, in *Proceedings of ACM Web Science conference (WebSci)*, Paris, France, May 2013.
- C. Wagner, L. Posch, P. Singer, and M. Strohmaier, *The Wisdom of the Audience: An Empirical Study of Social Semantics in Twitter Streams*, in *Proceedings of the Extended Semantic Web Conference (ESWC)*, Montpellier, France, May 2013. (acceptance rate 25.93%)
- M. Rowe, C. Wagner, M. Strohmaier, and H. Alani, *Measuring the Topical Specificity of Online Communities*, in *Proceedings of the Extended Semantic Web Conference (ESWC)*, Montpellier, France, May 2013. (acceptance rate 25.93%)

F. Weninger, C. Wagner, M. Wöllmer, B. Schuller, and L.O. Morency, *Speaker Trait Characterization in Web Videos: Uniting Speech, Language, and Facial Features*, in *Proceedings of the International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Vancouver, Canada, May 2013.

C. Wagner, M. Rowe, M. Strohmaier, and H. Alani, *Ignorance isn't Bliss: An Empirical Analysis of Attention Patterns in Online Communities*, in *Proceedings of the ASE/IEEE International Conference on Social Computing (SocialCom)*, Amsterdam, Netherlands, Sep 2012. **(best paper award)** (acceptance rate 23%)

C. Wagner, M. Rowe, M. Strohmaier, and H. Alani, *What catches your attention? An empirical study of attention patterns in community forums*, in *Proceedings of the International AAAI Conference on Weblogs and Social Media (ICWSM)*, Dublin, Ireland, May 2012.

V. Liao, C. Wagner, P. Pirolli, and W.T. Fu, *Understanding Experts' and Novices' Expertise Judgment of Twitter Users*, in *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Texas, Austin, May 2012.

P. Kraker, C. Wagner, F. Jeanquartier, and S.N. Lindstaedt, *On the Way to a Science Intelligence: Visualizing TEL Tweets for Trend Detection*, in *Proceedings of the European Conference on Technology Enhanced Learning (EC-TEL)*, Palermo, Italy, Sep 2011.

TEACHING

Data Science Lecture and Exercise, Univ. of Koblenz-Landau, summer term 2016 and 2017
Introduction to data science, descriptive statistic, Bayesian statistic, probabilistic models, regression methods, causal inference, visualization methods.

Computational Social Science Lecture and Exercise, Univ. of Koblenz-Landau, winter term 2016 and 2017

Introduction to computational social science, text mining (supervised method, unsupervised methods, political scaling, opinion mining), network analysis, agent based simulation, social phenomena and social issues, experiments, natural experiments.

Data Science Seminar, Univ. of Koblenz-Landau, summer term 2017
Using data science methods for public good, building visualizations, writing data stories.

CSS Research Lab, Univ. of Koblenz-Landau, winter term 2016 and 2017
Development of analysis and visualization tools that allow exploring social phenomena.

Sommerakademien der Studienstiftung des Deutschen Volkes, La Colle Sur Loup, France, Sep 2017
Workshop "Bias on the Web"

Extended Semantic Web Summer School, Dubrovnik, Croatia, September 2016
Invited Lecture "Introduction to Data Science Methods"

Web Science Summer School, Koblenz, Germany, July 2016
Invited Lecture "Introduction to Computational Social Science"

Web Science Summer School, Southampton, UK, July 2014
Invited Lecture "Data Science Methods for Web Scientists"

STUDENTS

Dimitar Dimitrov, PhD, Modelling navigation in information networks, Jun 2013 - Jun 2018.

Mohsen Jadidi, PhD, The dynamics of inequality in social systems, Jan 2015 - Nov 2019.

Olga Zagovora, PhD, Altmetrics: Alternative impact measures for scientific work, Jan 2017 - Jan 2020.

Lisette Espin Noboa, PhD, Explaining links and attributes in networks, May 2015 - Nov 2019.

Lisa Posch, Master (finished 2013), Characterizing and Predicting Semantic Hashtag Categories via Usage Patterns on Twitter.

Paul Laufer, Master (finished 2014), Cultural similarity, understanding and affinity on Wikipedia cuisine pages.

Maryam Mehrazar, Master (finished 2016), A computational approach for analysing online food interests in Germany.

Olga Zagovora, Master (finished 2016), Gender bias in descriptions of professions in Wikipedia.

Tatiana Sennikova, Master (finished 2017), The dynamics of collective attention on scientists and research topics.

Marcel Reif, Master (finished 2017), Topic models on biased corpora.

Evgenii Vasilev, Master (finished 2018), Inferring gender of reddit user.

Ali Aghelmaleki, Master, Unsexify me: a game to train a machine about sexism.

Pang Wayne Wee, Master, Subjectivity detection: a Wikipedia based approach.

Aadil Rasheed, Master, Detecting sub-article level controversies on Wikipedia.

Aaron Kohn, Bachelor, Gender bias in Reddit via word-embedding.

INVITED TALKS

Social issues in socio-technical systems, European Conference on Data Analysis, Paderborn, Germany, Jul 2018.

Minorities in social networks, International Conference on Network Science, Paris, France, Jun 2018.

Inequality in social networks, Business School of Greenwich University, London, UK, Apr 2018.

Gender Disparities in Science, Gendered Creative Teams Workshop, Budapest, Hungary, May 2017.

Algorithms and Fairness, Elevate festival, Graz, Austria, Mar 2017.

Gender Inequalities in Wikipedia, Workshop on Natural Language Processing and CSS, ACM Web Science conference, Hanover, Germany, May 2016.

Gender Inequalities in Wikipedia, Wiki Workshop at the International AAAI Conference on Web and Social Media, Cologne, Germany, May 2016.

SERVICES

ORGANIZATION

Co-Organizer of 3rd Summer Schools on CSS Methods, Germany, Aug 2019.

Co-Organizer of 2nd Summer Schools on CSS Methods, LA, USA, Aug 2018.

Co-Organizer of Workshop on Computational Modeling of People's Opinions, Personality, and Emotions in Social Media (PEOPLES), co-located with the Conference of the Association for Computational Linguistics, New Orleans, Louisiana, USA, Jun 2018.

Co-Organizer of 1st Summer Schools on CSS Methods, Sardinia, Italy, Aug 2017.

Data Co-Chair of the *International AAAI Conference on Web and Social Media (ICWSM)*, Montreal, CA, May 2017.

Program Co-Chair of the *International AAAI Conference on Web and Social Media (ICWSM)*, Cologne, Germany, May 2016.

Co-Organizer of Tutorial Computational Social Science for the World Wide Web, co-located with the 25th International Conference on World Wide Web, WWW 2016, Montreal, Canada, Apr 2016.

Workshop Co-Chair of the *International AAAI Conference on Web and Social Media (ICWSM)*, Oxford, UK, May 2015.

Co-Organizer of the Computational Approaches to Social Modeling Workshop (ChASM), co-located with the ACM Web Science Conference, Bloomington, IN, USA, Jun 2015.

SERVICES

EDITOR/REVIEWER

Editor of Frontiers Research Topic: Culturomics: Interdisciplinary Path Towards Quantitative Study of Human Culture.

Reviewer for Social Networks: An International Journal of Structural Analysis.

Reviewer for EPJ Data Science Journal.

Reviewer for Frontiers in Physics: At the crossroads: lessons and challenges in Computational Social Science.

Reviewer for American Society for Information Science and Technology.

Reviewer for Journal of Web Semantics.

Reviewer for Journal Semantic Web: Interoperability, Usability, Applicability.

PC of International World Wide Web Conference (WWW), 2014, 2015, 2016, 2018.

PC of International AAAI Conference on Web and Social Media (ICWSM), 2014 - 2016.

PC of Extended Semantic Web conference (ESWC), Web Science track, 2014 - 2017.

PC of ACM Hypertext Conference, 2014-2017.

PC of International Conference on Computational Social Science (ICCSS), 2015-2017.

PC of International Conference on Complex Networks, 2018.

OTHER ACTIVITIES

EU Project Reviewer for H2020 Project, Oct 2018.

Girl's Day Koblenz, Organizer of Computational Social Science Workshop, Apr 2018.

DHV Training: Leading research teams, Bremen, Mar 2018.

DLR Training: Proposal Writing, Berlin, Dec 2017.

Organizer of CSS Seminars at GESIS*

REFERENCES

Prof. Dr. Markus Strohmaier, RWTH Aachen University
markus.strohmaier@humtec.rwth-aachen.de

Prof. Dr. Steffen Staab, University of Koblenz-Landau
staab@uni-koblenz.de

Prof. Dr. Christof Wolf, University Mannheim and President of GESIS
christof.wolf@gesis.org

LANGUAGES

German (native language)

English (fluent)

Spanish (intermediate)

*<https://www.gesis.org/angebot/veranstaltungen/gesis-vortragsreihen/css-seminar/>