

# Frederic R. Hopp

Department of Communication • UC Santa Barbara • Media Neuroscience Lab  
4323 Social Sciences and Media Studies (SSMS), Santa Barbara, CA, 93106-2020 USA  
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## EDUCATION

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The University of California, Santa Barbara PhD in Communication (Expected May, 2021) Advisor: Rene Weber, Ph.D., M.D. Doctoral Committee: Scott Grafton, M.D., Scott Reid, Ph.D.	Santa Barbara, USA Fall '18 – Spring '21
The University of California, Santa Barbara Master of Arts in Communication Advisor: Rene Weber, Ph.D., M.D., Committee: Daniel Linz, Ph.D., Scott Reid, Ph.D.	Santa Barbara, USA Fall '16 – Fall '18
The University of Mannheim Bachelor of Arts in Media and Communication Studies Advisor: Peter Vorderer, Ph.D.	Mannheim, Germany Fall '12 – Spring '16

## RESEARCH AFFILIATION

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The University of California, Santa Barbara Graduate Student Researcher Media Neuroscience Lab Principal Investigator: René Weber, Ph.D., M.D.	09/2016 – Present
The University of California, Santa Barbara Associate Researcher NSF IGERT Network Science Program	09/2016 – Present
The University of Mannheim Research Assistant Research Project: Permanently Online, Permanently Connected Principal Investigator: Peter Vorderer, Ph.D.	02/2015 – 08/2016

The University of Mannheim	2013 – 2016
Research Assistant	
Research Project: Political Talkshows for Entertainment	
Funded by the German Research Foundation (DFG)	
Principal Investigator: Peter Vorderer, Ph.D.	

The University of California, Santa Barbara	01/2015 – 03/2015
Research Assistant	
Orfalea Center for Global & International Studies Research Project:	
Orfalea Center Framing Terrorism Project	
Principal Investigator: Michael Stohl, Ph.D.	

## AWARDS, HONORS, AND FELLOWSHIPS

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George D. McCune Dissertation Fellowship	2020-2021
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Santa Fe Institute Complex Systems Summer School (CSSS)	2021
Santa Fe Institute, Santa Fe, New Mexico	

Top Paper Award	2020
<i>National Communication Association – Mass Communication Division</i>	
Hopp, F.R., Fisher, J., & Weber, R. (2020). The neurophysiology of affective disposition theory.	

Top Paper Award	2020
<i>International Communication Association – Computational Methods Interest Group</i>	
Hopp, F.R., Fisher, J., & Weber, R. (2020). A computational approach for learning moral conflicts from movie scripts.	

Top Paper Award	2020
<i>International Communication Association – Communication Science &amp; Biology</i>	
Fisher, J.T., Hopp, F.R., & Weber, R. (2020). Of primary importance? Motivation drives resource allocation across concurrent tasks during multimedia processing.	

Top Paper Award	2019
<i>National Communication Association – Communication and Social Cognition</i>	
Fisher, J., Hopp, F.R., & Weber, R. (2019). Modality-specific effects of perceptual load in multimedia processing.	

Top Paper Award	2019
<i>International Communication Association – Computational Methods Interest Group</i>	
Hopp, F.R., Fisher, J., & Weber, R. (2019). The dynamic relationship between news frames and real-world events: A hidden Markov model approach.	

**Article of the Year Award** 2018

*Communication Methods and Measures*

Weber, R., Mangus, J., M., Huskey, R., Hopp, F.R., Amir, O., Swanson, R., Gordon, A., Khooshabeh, P., Hahn, L., Tamborini, R. (2018). Extracting latent moral information from text narratives: Relevance, challenges, and solutions.

**Top Paper Award** 2018

*National Communication Association – Mass Communication Division*

Hopp, F.R., Cornell, D., Fisher, J., Huskey, R., & Weber, R. (2018, November). The Moral Foundations Dictionary for News (MFD-N): A Crowd-Sourced Moral Foundations Dictionary for the Automated Analysis of News Corpora.

**Top Paper Award** 2018

*International Communication Association, Communication Science & Biology*

Fisher, J. Hopp, F.R., & Weber, R. (2018). "Look harder!" ADHD, media multitasking, and the effects of cognitive and perceptual load on resource availability and processing performance.

**PROMOS Scholarship** 2015

German Academic Exchange Service (DAAD)  
€1,600

## REFEREED PUBLICATIONS

(<https://scholar.google.com/citations?user=JHcPqTAAAAAJ&hl=de>)

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12. Hopp, F. R., Fisher, J., & Weber, R. (2020). A graph-learning approach for detecting moral conflict in movie scripts. *Media and Communication*, 8(3), 164–179.
11. Hopp, F. R., Fisher, J., Cornell, D., Huskey, R., & Weber, R. (2020). The extended moral foundations dictionary (eMFD): Development and applications of a crowd-sourced approach to extracting moral intuitions from text. *Behavior Research Methods*.
10. Hopp, F. R., Fisher, J., & Weber, R. (2020). Dynamic transactions between news frames and sociopolitical events: An integrative, hidden markov model approach. *Journal of Communication*, 70(3), 335–355.
9. Weber, R., & Hopp, F. R. (2020). Moral emotions and conflict motivate actions. *Insights – Consumer Neuroscience in Business*, 30, 12–13.
8. Fisher, J., Hopp, F. R., & Weber, R. (2019). Modality-specific effects of perceptual load in multimedia processing. *Media and Communication*, 7(4), 149–165.

7. **Hopp, F. R.**, Schaffer, J., Fisher, T., Cornell, D., & Weber, R. (2019). iCoRe: The GDELT interface for the advancement of communication research. *Computational Communication Research*, 1(1), 13–44.
6. Weber, R., Mangus, J. M., Huskey, R., **Hopp, F. R.**, Amir, O., Swanson, R., Gordon, A., Khooshabeh, P., Hahn, L., Tamborini, R. (2018). Extracting latent moral information from text narratives: Relevance, challenges, and solutions. *Communication Methods and Measures*, 2(2-3), 119–139.
5. Weber, R., Fisher, J.T., **Hopp, F. R.**, Lonergan, C. (2017). Taking messages into the magnet: Method-theory synergy in media neuroscience research. *Communication Monographs*, 84, 1–22.
4. Weinmann, C., Roth, F. S., Schneider, F. S., Krämer, T., **Hopp, F. R.**, & Vorderer, P. (2017). I don't care about politics, I just like that guy! Affective disposition and political attributes in information processing of political talk shows. *International Journal of Communication*, 11, 3118–3140.
3. Schneider, F. M., Zwillich, B., Bindl, M., **Hopp, F. R.**, Vorderer, P., Reich, S. (2017). Social media ostracism: The effects of being excluded online. *Computers in Human Behavior*, 73, 385–393.
2. Roth, F. S., Weinmann, C., Schneider, F. S., **Hopp, F. R.**, Bindl, M. J., & Vorderer, P. (2017). Curving entertainment: The curvilinear relationship between hedonic and eudaimonic experiences while watching a political talk show and its implications for information processing. *Psychology of Popular Media Culture*, 6, 1–19.
1. Roth, F., Weinmann, C., Schneider, F., **Hopp, F. R.**, & Vorderer, P. (2014). Seriously entertained: Antecedents and consequences of hedonic and eudaimonic entertainment experiences with political talk shows on TV. *Mass Communication and Society*, 17(3), 379–399.

## MANUSCRIPTS UNDER REVIEW

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- Fisher, J., **Hopp, F. R.**, & Weber, R. (revise & resubmit). Of primary importance? Motivation drives resource allocation across concurrent tasks during multimedia processing. *Communication Research*.
- Fisher, J. T., **Hopp, F. R.**, & Weber, R. (revise & resubmit). A practical introduction to network neuroscience for communication researchers. Manuscript submitted for publication. *Communication Methods and Measures*.
- Rohm, S., **Hopp, F. R.**, & Smit, E.G. (revise & resubmit). Exposure to serial audiovisual narratives increases empathy via vicarious interactions. *Media Psychology*.

Malik, M., Hopp, F. R., & Weber, R. (under review). Representations of racial minorities in popular Hollywood movies: A content-analytic synergy of computer vision and network science. *Computational Communication Research*.

Malik, M., Hopp, F. R., Chen, Y., & Weber, R. (under review). Does regional variation in pathogen prevalence predict the moralization of COVID-19 in online news? *Journal of Language and Social Psychology*

## MANUSCRIPTS IN PREPARATION

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Hopp, F. R., Fisher, J., & Weber, R. (in prep). Narrative network science.  
To be submitted to *Humanities and Social Sciences Communications*.

Weber, R., Hopp, F. R., & Fisher, J. (in prep). Predicting movie performance from latent moral values in movie scripts. To be submitted to *Human Communication Research*.

Lester, N., Hopp, F. R., & Weber, R. (in prep). Construal-level theory and intuitive morality: How processing states shape moral judgments of media content. To be submitted to *Media Psychology*.

## BOOK CHAPTERS

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4. Weber, R., Hopp, F. R., & Fisher, J. (2020). The moral narrative analyzer (MoNA): A platform for extracting moral emotions and conflict from messages at scale. In *Neuromarketing Yearbook 2020*. Neuromarketing Science & Business Association (NMSBA).

3. Fisher, J.T., Lonergan, C., Hopp, F. R., & Weber, R. (in press) Media entertainment, flow experiences, and the synchronization of audiences. In Vorderer, P., & Klimmt, C., (Eds.) *Oxford Handbook of Entertainment Theory*.

2. Hopp, F. R., & Weber, R. (2020) The state-of-the-art and future of fMRI methodology in communication research. In Weber, R. & Floyd, K. (Eds.) *Handbook of Communication Science and Biology*. New York, NY: Routledge

1. Roth, F., Weinmann, C., Schneider, F., Hopp, F. R., & Vorderer, P. (2016). Seriously entertained: Antecedents and consequences of hedonic and eudaimonic entertainment experiences with political talk shows on TV. In *Entertainment Media and Politics* (pp. 85-105). New York, NY: Routledge

## GRANT ACTIVITIES

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John Templeton Foundation • \$234,800

2018

*Moral Foundations of Movies: Examining the Virtuous Content and Financial Performance of Popular Films*

Collaborator, co-wrote wrote proposal with PIs René Weber, Ph.D., M.D. & Stacy Smith, Ph.D.

## SOFTWARE PACKAGES

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3. The GDELT interface for Communication Research (iCoRe; <http://icore.mnl.ucsb.edu>), UC Santa Barbara – Media Neuroscience Lab

2. The Moral Narrative Analyzer (MoNA; <https://mnl.ucsb.edu/mona/>), UC Santa Barbara – Media Neuroscience Lab

1. eMFDscore (<https://github.com/medianeuroscience/emfdscore>), UC Santa Barbara – Media Neuroscience Lab

## PRESS COVERAGE

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Leetaru, K. (2020). Examining Trends in Moral News Framing Across a Decade of Television Coverage. *The GDELT Project Blog*. <https://blog.gdeltproject.org/examining-trends-in-moral-news-framing-across-a-decade-of-television-coverage/>

Tasoff, H. (2019). The moral mind: Researcher blazes the way in our understanding of moral sensibilities. *The Current UC Santa Barbara*. <https://www.news.ucsb.edu/2019/019588/moral-mind>

Koenig, S. (2019). Is the psychology of Greta Thunberg's climate activism effective? *Nautilus*. <http://nautil.us/blog/is-the-psychology-of-greta-thunbergs-climate-activism-effective>

## INVITED TALKS

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The University of California at Davis, Department of Communication (April, 2020). *Computational Modelling of Moral Belief Systems*.

Neuromarketing World Forum (NMWF; 2020). *A good story involves moral conflict – sure, but what exactly is moral conflict?* Keynote Speaker. Los Angeles, CA, USA.

## CONFERENCE PRESENTATIONS

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41. Hopp, F. R., Fisher, J.T., & Weber, R. (2020, November). *The neurophysiology of affective disposition theory*. Paper presented at the annual meeting of the National Communication Association (NCA), Indianapolis, IN.
40. Hopp, F. R., Fisher, J.T., & Weber, R. (2020, November). *Predicting movie performance from latent moral values in movie scripts*. Paper presented at the annual meeting of the National Communication Association (NCA), Indianapolis, IN.
39. Fisher, J.T., Chen, Y., Hopp, F. R., & Weber, R. (2020). *Uncovering the structure of media multitasking and attention problems using network analytic techniques*. Paper presented at the annual meeting of the National Communication Association (NCA), Indianapolis, IN.
38. Weber, R., Hopp, F. R., Fisher, J., Chen, Y., & Eden, A. (2020). *Punishment of moral norm violations in drama narratives predict viewer engagement*. Paper submitted to the annual meeting of the Social and Affective Neuroscience Society (SANS), Santa Barbara, USA
37. Fisher, J., Hopp, F. R., Weber, R. (2020). *Cognitive and perceptual load differentially influence brain network topology during a naturalistic task*. Paper submitted to the annual meeting of the Social and Affective Neuroscience Society (SANS), Santa Barbara, USA
36. Hopp, F. R., Malik, M., Fisher, J., Chen, Y., & Weber, R. (2020). *What drives news sharing across the globe? A large-scale, cross-national comparison of news sharing*. Paper submitted to the International Communication Association (ICA), Gold Coast, Queensland, Australia.
35. Hopp, F. R., Fisher, J., & Weber, R. (2020). *A computational approach for learning moral conflicts from movie scripts*. Paper submitted to the International Communication Association (ICA), Gold Coast, Queensland, Australia.
34. Fisher, J., Chen, Y., Hopp, F. R., & Weber, R. (2020) *Uncovering the structure of media multitasking and attention problems using network analytic techniques*. Paper submitted to the International Communication Association (ICA), Gold Coast, Queensland, Australia.
33. Fisher, J., Hopp, F. R., & Weber, R. (2020) *Of primary importance? Motivation drives resource allocation across concurrent tasks during multimedia processing*. Paper submitted to the International Communication Association (ICA), Gold Coast, Queensland, Australia.
32. Fisher, J., Hopp, F. R., & Weber, R. (2020) *Cognitive load and perceptual load during video game play correspond to differing brain network topologies*. Paper submitted to the International Communication Association (ICA), Gold Coast, Queensland, Australia.

31. Lukito, J., Van Der Velden, M., **Hopp, F. R.**, & Fisher, J. (2020). *Opening Communication Science: ICA 2020 Hackathon*. Pre-conference proposal submitted to the International Communication Association (ICA), Gold Coast, Queensland, Australia.
30. **Hopp, F. R.**, Fisher, J., Prabhu, S., Tamborini, R., & Weber, R. (2019). *Beyond self-reports: Challenges and solutions for the implicit measurement of moral intuition*. Paper presented at the fourth annual meeting of the Morality and Media Mini-Conference, East Lansing, MI, USA.
29. Fisher, J., **Hopp, F. R.**, & Weber, R. (2019) *Modality-specific effects of perceptual load in multimedia processing*. Paper submitted to the 105th Annual Convention of the National Communication Association, Baltimore, Maryland, USA
28. Fisher, J., **Hopp, F. R.**, Prabhu, S., Tamborini, R., & Weber, R. (2019) *Developing best practices for the implicit measurement of moral foundation salience*. Paper submitted to the 105th Annual Convention of the National Communication Association, Baltimore, Maryland, USA
27. **Hopp, F. R.**, Fisher, J. T., & Weber, R. (2019, February). *The moral narrative analyzer (MoNA): An integrated, spatio-temporal platform for monitoring, predicting, and countering global sociopolitical instability*. Paper presented at the Workshop on Naval Applications of Machine Learning (NAML), San Diego, CA.
26. **Hopp, F. R.**, Lonergan, C., Fisher, J., & Weber, R. (2019). *The joy of mediated punishments: Moral transgression in auditory narratives elicit cortical synchronization in listeners*. Paper submitted to the annual meeting of the Social and Affective Neuroscience Society (SANS), Miami, USA
25. Fisher, J., **Hopp, F. R.**, Lonergan, C., & Weber, R. (2019). *Brain network topology and dynamics in ADHD individuals during video game play*. Paper submitted to the annual meeting of the Social and Affective Neuroscience Society (SANS), Miami, USA
24. Lukito, J., TeBlunthuis, N., & **Hopp, F. R.** (2019). *Expanding computational communication: Towards a pipeline for graduate students and early career scholars*. Pre-conference proposal submitted to the Computational Communication Research Interest Group of the International Communication Association (ICA), Washington, DC.
23. Fisher, J.T., Lonergan, C., **Hopp, F. R.**, Grall, C., Pandey, P., Scholz, C., Najera, C.J., & Wilcox, S. (2019). *Best practices in training and mentoring research assistants and new graduate students*. Workshop submitted to the annual meeting of the International Communication Association (ICA), Washington, DC.



22. **Hopp, F. R.**, Barel, A., Fisher, J., Cornell, D., Lonergan, C., & Weber, R. (2019). *"I believe that morality is gone": A large-scale inventory of moral foundations in lyrics of popular songs*. Paper submitted to the annual meeting of the International Communication Association (ICA), Washington DC, USA.
21. **Hopp, F. R.**, Fisher, J., Prabhu, S., Cornell, D., Tamborini, R., & Weber, R. (2019). *Revisiting the Moral Foundations-Affect Misattribution Procedure (MF-AMP): An extended, open-source tool for measuring the accessibility of moral intuitions*. Paper submitted to the annual meeting of the International Communication Association (ICA), Washington DC, USA.
20. **Hopp, F. R.**, Fisher, J., & Weber, R. (2019). *The dynamic relationship between news frames and real-world events: A hidden Markov model approach*. Paper submitted to the annual meeting of the International Communication Association (ICA), Washington DC, USA.
19. Fisher, J.T., **Hopp, F. R.**, Lonergan, C., & Weber, R. (2019). *Brain network topology and network dynamics in ADHD individuals during video game play*. Extended abstract submitted to the annual meeting of the International Communication Association (ICA), Washington, DC.
18. Fisher, J.T., **Hopp, F. R.**, Lonergan, C., & Weber, R. (2019). *All load is not equal: Disentangling the roles of reward and process type on resource allocation in an interactive task*. Paper submitted to the annual meeting of the International Communication Association (ICA), Washington, DC.
17. **Hopp, F. R.**, Cornell, D., Fisher, J., Huskey, R., & Weber, R. (2018, November). *The Moral Foundations Dictionary for News (MFD-N): A crowd-sourced moral foundations dictionary for the automated analysis of news corpora*. 104th Annual Convention of the National Communication Association, Salt Lake City, UT, USA.
16. **Hopp, F.R.**, Fisher, J. T., Mangus, J. M., Huskey, R., Swanson, R., Gordon, A., Khooshabeh, P., & Weber, R. (2018). *Mining the Global Database of Events, Language, and Tone: An introduction for communication researchers*. Paper submitted to the annual meeting of the International Communication Association (ICA), Prague, CZ.
15. **Hopp, F.R.**, Fisher, J. T., Mangus, J. M., Weber, R. (2018). *Combining computational content analysis with self-report data to predict news article sharing*. Paper submitted to the annual meeting of the International Communication Association (ICA), Prague, CZ.
14. **Hopp, F.R.**, Mangus, J. M., Swanson, R., Gordon, A., Khooshabeh, P., Weber R. (2018). *Developing and validating the moral foundations dictionary for news narratives: A crowd-sourced approach*. Paper submitted to the annual meeting of the International Communication Association (ICA), Prague, CZ.

13. Weber, R., **Hopp, F.R.**, Mangus, J. M., Choueiti, M., Pieper, K., Smith, S. (2018). *The Moral Narrative Analyzer for Movies: A hybrid content analytical platform for extracting moral content from movie scripts*. Paper submitted to the annual meeting of the International Communication Association (ICA), Prague, CZ.
12. Fisher, J. **Hopp, F.R.**, & Weber, R. (2018). *"Look harder!" ADHD, media multitasking, and the effects of cognitive and perceptual load on resource availability and processing performance*. Paper submitted to the annual meeting of the International Communication Association (ICA), Prague, CZ.
11. Fisher, J., Cornell, D., **Hopp, F.R.**, Weber, R. (2018). *But how are they talked about?": A novel measure of entity framing in online news*. Paper submitted to the annual meeting of the International Communication Association (ICA), Prague, CZ.
10. Schneider, F. M., Rieger, D., **Hopp, F.R.**, Rothmond, T. (2018). *First aid in the pocket the psychosocial benefits of smartphones in self-threatening situations*. Paper submitted to the annual meeting of the International Communication Association (ICA), Prague, CZ.
9. **Hopp, F.R.**, Fisher, J. T., Mangus, J. M., Huskey, R., Swanson, R., Gordon, A., Khooshabeh, P., & Weber, R. (2017). *Examining online news reporting using the Global Database of Events, Language, and Tone: Challenges, opportunities, and future directions*. 103rd Annual Convention of the National Communication Association, Dallas, TX, USA.
8. Schneider, F. M., Rieger, D., **Hopp, F.R.**, Rothmund, T. (2017). *First aid in the pocket—The psychosocial benefits of smartphones in self-threatening situations*. 10th Conference of the Media Psychology Division (German Psychological Society, DGPs) Landau.
7. Reich, S., Reinecke, L., Hefner, D., Winkler, J., **Hopp, F.R.**, Knop-Huelss, K., Chan, M., Owen, B., & Vorderer, P. (2017). *Self-construal cultural values and everyday life with a smartphone – Intercultural differences in being permanently online and connected*. 67th Annual Conference of the International Communication Association (ICA), San-Diego, CA, USA.
6. Roth, F. S., Weinmann, C., Schneider, F. S., **Hopp, F.R.**, Bindl, M. J., & Vorderer, P. (2016). *Curving entertainment: The curvilinear relationship between hedonic and eudaimonic entertainment experiences while watching a political talk show and its implications for information processing*. Annual Conference of the Fachgruppe Rezeptions- und Wirkungsforschung (Deutsche Gesellschaft für Publizistik und Kommunikationswissenschaft, DGPK), Amsterdam.
5. Schneider, F.S., Zwillich, B., Bindl, M., **Hopp, F. R.**, & Vorderer, P. (2015). *Being excluded in the online world: Investigating the detrimental effects of cyberostracism with the ostracism online paradigm*. 9th Conference of the Media Psychology Division (German Psychological Society, DGPs) Tübingen.

4. Weinmann, C., Roth, F. S., Schneider, F. S., Krämer, T., **Hopp, F. R.**, & Vorderer, P. (2015). *I don't care about politics, I just like that guy! Affective disposition and political attributes in information processing of political talk shows*. Annual Conference of the Fachgruppe Rezeptions- und Wirkungsforschung (Deutsche Gesellschaft für Publizistik und Kommunikationswissenschaft, DGPK), Bamberg.
3. Roth, F. S., Weinmann, C., Schneider, F. M., Krämer, T., **Hopp, F. R.**, & Vorderer, P. (2014). *Political talk shows as instances for political agency*. 60th Annual Conference of the German Association for Communication (Deutsche Gesellschaft für Publizistik und Kommunikationswissenschaft, DGPK), Darmstadt.
2. Roth, F. S., Weinmann, C., Schneider, F. M., **Hopp, F. R.**, & Vorderer, P. (May, 2014). *Seriously entertained: Antecedents and consequences of hedonic and eudaimonic entertainment experiences with political talk shows*. 64th Annual Conference of the International Communication Association (ICA), Seattle, WA, USA.
1. Vorderer, P., Roth, F. S., Weinmann, C., & **Hopp, F. R.** (2013, September). *Connecting media psychology and political communication: An exploratory telephone survey about how and why people use political talk shows*. 8th Conference of the Media Psychology Division (German Psychological Society, DGPs), Würzburg.

## TEACHING

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The University of California, Santa Barbara

### Instructor of Record

Media Effects on the Individual

Summer '20

### Teaching Assistant

Introduction to Communication

Fall '16

Statistical Analysis of Communication

Winter '17, '19

(Assisted with Lecturing)

Research Methods

Fall '17, Winter '18

Theories of Communication

Spring '18, Summer '18, Spring '19

### UC-wide online course "Computational Social Science"

Fall '17

(CMN 150V, UC Davis)

Contributing lecturer

Collaborative online course sponsored by the UC Office of the President's Innovative Learning Technology Initiative

The University of Mannheim

Teaching assistant

Introduction to Media- and Communication Studies

Theories of Media- and Communication Studies

Scientific Working Routines

Fall '13

Spring '14

Fall '16

## SERVICE

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International Communication Association 2016 – Present

Reviewer

Co-organizer preconference: Expanding computational communication 2019

Co-organizer preconference: Opening Communication Science: ICA 2020 2020

Hackathon

National Communication Association 2016 – Present

Reviewer

Ad-hoc Reviewer 2016 – Present

Communication Studies

Information, Communication, & Society

International Journal of Communication

Journalism Studies

Journal of Media Psychology

Social Cognitive and Affective Neuroscience

## LANGUAGES AND QUALIFICATIONS

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Languages

German (native)

English (fluent)

Spanish (basics)

Latin (Latinum)

Programming

Python

JavaScript

R

SQL (MySQL) & NoSQL (Apache Cassandra)

Spark

## Data Science

Machine Learning (sklearn, pytorch, keras, tensorflow)

Statistical Inference (statsmodels, SPSS)

Natural Language Processing (spaCy)

Data Transformation (pandas, numpy, mapreduce)

Information Retrieval (web-scraping, APIs)

## Web Development

Django

HTML & CSS

jQuery

AngularJS