Joe Hoover

Postdoctoral Fellow

Kellogg School of Management
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◎ Skills

Quantitative Research	★★★★
NLP/NLU	★★★★
Predictive Modeling	★★★★
Survey Methodology	★★★★
Causal Inference	★★★★
Machine Learning	★★★★
Bayesian Modeling	★★★★
Data Visualization	★★★★

🖥 Technology

R	★★★★
Python	★★★★
Shiny/Plotly	★★★★
SQL/MongoDB	★★★★
PyTorch	★★★★

★☆☆☆ Novice
★★☆☆ Intermediate experience
★★★☆ Advanced experience

👤 Profile

PhD data scientist with a history of using computational and social science methods to answer questions about social dynamics and human behavior. Passion for developing efficient, results oriented solutions to difficult analytic problems. Deep technical expertise with a background in the humanities and experience communicating with non-technical stakeholders.

💼 Experience

Postdoctoral Fellow, Kellogg School of Management

Northwestern University
Chicago, Illinois
October, 2019 - Present

Lead projects and consult on secondary projects focused on social science, NLP, and social media analytics. Design and implement Deep Learning-based NLP systems for fine-grained, target-based sentiment analysis

Graduate Research Fellow, Computational Social Sciences Lab

University of Southern California
Los Angeles, California
September, 2015 - September, 2019

Focused on NLP, statistics, social media analytics, and survey methods to study human values and real-world outcomes like charitable donation and hate speech

Data Science Consultant

Independent Contractor
March, 2017 - Ongoing

Design and implement custom solutions to analytic problems related to hypothesis testing, NLP, and market segmentation

Data Science Intern

Ranker
Los Angeles, CA
June, 2017 - August, 2017

Developed time-series models (ARIMAX) for dynamic Google AdSense ad pricing and developed Slackbot information recall system for embeddings-based similarity queries

★ ★ ★ ★ Expert

🎓 Education

PhD	**MS**	**BA**
Psychology	Psychology	English
University of Southern California	University of Oregon	Central Connecticut State University
Los Angeles, CA	Eugene, OR	New Britain, CT
2015 - 2020	2013 - 2015	2010

Publications

Selected Journal Articles

- **Hoover, J.,** Atari, M, Mostafazadeh, A, Kennedy, B, Portillo-Wightman, G, Yeh, L, & Dehghani, M. (Revise and Resubmit). Bound in Hatred: The role of group-based morality in acts of hate. *Nature Communications.* pdf

- **Hoover, J.**, Dehghani, M. (2019). The big the bad, and the ugly: Geographic estimation with flawed psychological data. *Psychological Methods*. Pdf

- **Hoover, J.**, et. al. (2019). Moral Foundations Twitter Corpus: A collection of 35k tweets annotated for moral sentiment. *Social Psychological and Personality Science*. pdf

- **Hoover, J.***, Mooijman, M.*, Lin, Y., Ji, H., Dehghani, M. (2018). Moralization in social networks and the emergence of violent protests. *Nature Human Behavior.* pdf

- **Hoover, J.**, Johnson, K., Boghrati, R., Graham, J., Dehghani, M. (2018). Moral Framing and Charitable Donation: Integrating Exploratory Social Media Analyses and Confirmatory Experimentation. *Collabra: Psychology.* Vol. 4 (1) pdf

- Garten, J., **Hoover, J.**, Johnson, K., Boghrati, R., Iskiwitch, C., Dehghani, M. (2017). Dictionaries and Distributions: Combining Expert Knowledge and Large Scale Textual Data Content Analysis. *Behavior Research Methods*. pdf

- Iliev, R., **Hoover, J.**, Dehghani, M., Axelrod, R. (2016). Linguistic positivity in historical texts reflects dynamic environmental and psychological factors. *Proceedings of the National Academy of Sciences*. pdf

Selected Proceedings

- Lin, Y., **Hoover, J.,**, Portillo-Wightman, G., Park, C., Dehghani, M., and Heng, J. (2018). Acquiring Background Knowledge to Improve Moral Value Prediction. Paper presented at The 2018 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM2018)

- **Hoover, J.**, Horton, K., Dehghani, M. (2017). The Meanings of Morality: Investigating the psychometric properties of distributed representations of latent moral concepts. In the proceedings of 38th Annual Conference of the Cognitive Science Society (CogSci).