

# Jan Overgoor

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**Date of Birth:** 11/2/1988  
**Nationality:** Dutch  
**Education:** Doctor of Philosophy – Management Science & Engineering (Ph.D.)  
Stanford University  
2016 – 2021 (planned)

Master of Science – Symbolic Systems (M.Sc.)  
Stanford University  
2010 – 2012

Bachelor of Science - Artificial Intelligence (B.Sc., Honors, Cum Laude)  
Faculty of Science, University of Amsterdam  
2007 – 2010  
*Erasmus exchange, University of Edinburgh, 2009*

**Honors & Grants:** Huygens Scholarship, Nuffic, 2010  
Heitz Fellowship, 2016  
Accel Fellowship, 2017  
Program on Democracy and the Internet Fellowship

## Research Experience:

06/2018 – current      *‘Choosing to grow a graph’*  
Thesis project on modeling social network formation as a discrete choice problem. Supervised one master student. Presented at WWW, KDD, NetSci, IC2S2, EUSN, SIAM-NS, SIAM-MDS, and Facebook.

01/2018 – current      *‘Scorecard college networks’*, research project on modeling social networks of U.S. college students, in collaboration with Facebook. Presented at NetSci, IC2S2, and ICWSM.

01/2017 – current      *‘BankBank’*  
Research project on the development and effect of cultural norms using employee communication data during a corporate merger.

06/2016 – 12/2016      *Stanford Open Policing Project*  
Research project on the collection, processing and release of public records of police stops across the United States. We investigated the presence of racial bias in officer search decisions, and the impact of various policy changes. Accepted for publication in Nature Human Behavior

10/2011 – 06/2012      *‘An investigation of trust in the CouchSurfing community’*  
M.Sc. thesis project on network and sentiment analysis on trust in social networks at Stanford University.

7/2011 – 05/2012	‘ <i>Big Move</i> ’, consulting at data architecture and acquisition in a medical information environment at Big Move Institute.
9/2010 – 12/2010	‘ <i>SentNet</i> ’, double term project on sentiment analysis and information propagation at Stanford University.
1/2010 – 7/2010	‘ <i>The value of learning linguistic structures in relation extraction</i> ’, B.Sc. project on information retrieval at University of Amsterdam.
9/2009 – 1/2010	‘ <i>Naranotation</i> ’, honors program research project on computational automated storytelling and augmented reality at University of Amsterdam.
6/2009 – 7/2009	‘ <i>Human-computer classification in a content management environment</i> ’, research internship at Hippo. Applied clustering to a collaborative tagging system.
9/2008 – 2/2009	‘ <i>Feed</i> ’, honors program research project on applying semantic web techniques to urban planning at University of Amsterdam.

## **Publications:**

Levi Martin, J., Overgoor, J., and State, B. (2020). Persistence and Change in Structural Signatures of Tie Formation Over Time. *Submitted*

Overgoor, J., Supaniratisai, G.P., and Ugander, J. (2020). Scaling choice models of relational social data. In *Proceedings of the 26th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD), August 2020*.

Overgoor, J., State, B., and Adamic, L. (2020). The dynamics of U.S. college network formation on Facebook. *Submitted*

Overgoor, J., State, B., and Adamic, L. (2020). The structure of U.S. college networks on Facebook. In *Proceedings of the International AAAI Conference on Web and Social Media (ICWSM)*, 14(1), 499-510.

Pierson, E., Simoiu, C., Overgoor, J., Corbett-Davies, S., Jenson, D., Shoemaker, A., et al. (2020). A large-scale analysis of racial disparities in police stops across the United States. *Nature Human Behaviour*, 4(7), 1–12.

Overgoor, J., Benson, A., and Ugander, J. (2019). Choosing to grow a graph: Modeling network formation as discrete choice. In *Proceedings of the 2019 World Wide Web Conference (WWW)*, San Francisco, CA, ACM.

Overgoor, J., Wulczyn, E. and Potts, C. (2012). Trust propagation with mixed-effects models. *Proceedings of the 6<sup>th</sup> International AAAI Conference on Weblogs and Social Media (ICWSM)*. Dublin, Ireland.

Nack, F., El Ali, A., van Kemenade, P., Overgoor, J., and van der Weij, B. (2010). A story to go, please. *Interactive Storytelling (ICIDS)*, pp. 74-85, Springer.

## **Conference, Seminar and Professional Presentations:**

03/2020 – 09/2020	<i>Scaling choice models of relational social data</i> SIAM-MDS, KDD, SIAM-NS, KDD, IC2S2, NetSci
06/2019 – 08/2019	<i>The structure of U.S. college networks on Facebook</i> NetSci, IC2S2, ICWSM
05/2019 – 09/2019	<i>Choosing to grow a graph</i>

WWW, NetSci, IC2S2, EUSN, Facebook

- 10/2014 *'Maps of relevance: How Airbnb models geographic relations with behavioral data'*  
CSS 2014 Fall Conference, Stanford University
- 4/2014 *'Experiments at Airbnb'*  
Airbnb Tech Talk with Will Moss, San Francisco, California
- 11/2013 *'Finding great properties: How Airbnb uses open-source technology and analytics to deliver meaningful experiences'*  
Strata
- 6/2012 *'Trust propagation with mixed-effects models'*  
ICWSM, CouchSurfing
- 5/2012 *'Sentiment as social and context dependent'*  
With Christopher Potts, Hewlett-Packard Labs, Palo Alto, California
- 5/2012 *'An investigation of trust in the CouchSurfing community'*  
Symbolic Systems Forum, Msc. presentation, Stanford University

### Teaching Experience:

- 2019, 2020 Teaching Assistant for Prof. J. Ugander, Stanford University
- Data privacy and ethics
- 2011 Teaching Assistant for Profs. J. van Benthem and J. McClelland, Stanford University
- Introduction to Cognitive and Information Sciences

### Relevant Work Experience:

- 06/2016 – current Independent data science consulting, San Francisco Bay Area
- CouchSurfing, BigMove, Health Tap, /pol/, Urbe, Facebook, Hipcamp
- 06/2012 – 09/2017 *Facebook*, Menlo Park
- Research scientist internship working on Feed integrity and computational social science
- 09/2012 – 01/2016 *Airbnb*, San Francisco
- Senior Data scientist, responsible for analyzing large amounts of company data, guiding company and product strategy, and building out the data science team from 5 to 100 people.
  - Worked on the search algorithm, a location-based recommender system, text classification, machine learning infrastructure, market place modeling, the experimentation platform, the knowledge sharing platform, and various other projects
- 3/2008 – 6/2010 *Hippo*, Amsterdam
- Web development for an open source content-management system

### Other Interests:

Traveling, triathlon, music, literature, and tango