

Employment

Assistant Professor. DTU Informatics, Technical University of Denmark.

Dates: 10/1/2010–present.

Postdoctoral Research Fellow. Institute for Quantitative Social Science, Harvard University and College of Computer and Information Science, Northeastern University.

Dates: 10/1/2009–31/8/2010.

Research Fellow. Center for Cancer Systems Biology, Dana Farber Cancer Institute, Harvard University

Dates: 9/1/2007–31/8/2010.

Postdoctoral Research Associate. Center for Complex Network Research, Department of Physics, Northeastern University.

Dates: 9/1/2007–9/31/2009.

Postdoctoral Research Associate. Informatics and Mathematical Modeling, Technical University of Denmark.

Dates: 2/1/2007–8/31/2007.

Education

Ph. D. DTU Informatics, Technical University of Denmark.

Dissertation: *The Structure of Complex Networks*. Advisor: Lars Kai Hansen, Co-advisors: Andrew D. Jackson, Mogens Høgh Jensen.

Dates: 2004–2007.

M. Sc., Physics, The Niels Bohr Institute, University of Copenhagen, Denmark.

Thesis: *Complex Networks and Scientific Excellence*. Advisor: Benny Lautrup. Dates: 2000–2003.

B. Sc., Physics, The Niels Bohr Institute, University of Copenhagen, Denmark.

Thesis: *Fighting Entanglement with Entanglement*. Advisor: Benny Lautrup. Dates: 1997–2000.

Conferences/Talks

2012

SMBE 2012 - Annual Meeting of the Society for Molecular Biology and Evolution (Symposium on Evolutionary Networks: Proteins, Genomes, Organisms).

– Invited Speaker. Title: *Link communities in complex networks*. Dates: June 23-26, Dublin Convention Centre, Dublin, Ireland.

MAPCON12 - International workshop on Mathematical Physics of Complex Networks

– Invited Speaker. Dates May 14-18, Max Planck Institute for the Physics of Complex Systems in Dresden, Germany.

CompleNET 2012 - 2nd Workshop on Complex Networks.

– Invited Speaker. Title: *Validation of network communities* Dates: 7-9 March, 2012, Melbourne, Florida, USA.

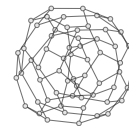
2011

ARS'11 International Workshop on Social Network Analysis.

– Invited speaker. Title: *Community structure in densely connected networks*. Dates: 23-25 June 2011, Naples, Italy.

Interdisciplinary Workshop on Information and Decision in Social Networks (WIDS)

– Session Chair: *Online Networks*. Dates: May 31 - June 1, 2011. M.I.T. MediaLab, Cambridge, Massachusetts, USA.



Conference on Applications of Network Theory

– Invited speaker. Title: *Community structure in densely connected networks*. Dates: April 7-9, 2011. AlbaNova/Nordita Stockholm, Sweden.

Google Denmark

– Invited Seminar. Title: *TwitterMood +*. Date: April 1, 2011, Copenhagen Denmark.

2010

IBM Research, Cambridge

– Title: *Focus on relationships. Link communities in complex networks*. Date: June 25, 2010. Cambridge, Massachusetts, USA.

New Directions in Text Analysis

– Dates: May 21-22, 2010. Institute for Quantitative Social Science. Harvard University, Cambridge, Massachusetts, USA.

Workshop on Computational Social Science

– Dates: May 10-11, 2010. Institute for Quantitative Social Science. Harvard University, Cambridge, Massachusetts, USA.

NetSci10: International Conference on Network Science.

– Title: *Benchmark graphs and evaluation of community detection algorithms*. Dates: May 12-14, 2010. M.I.T. MediaLab, Cambridge, Massachusetts, USA. Critical Ecologies: On the Biological, Horticultural, and Anthropological Antecedents to Design.

– Invited Speaker. Title: *The Paths We Take: Understanding Human Activity and Mobility Based on Digital Traces*. Date: April 3, 2010. Graduate School of Design, Harvard University, Cambridge, Massachusetts, USA.

Department of Statistics, Harvard University (Airoidi lab seminar).

– Title: *Focus on relationships. Link communities in complex networks*. Date: January 9, 2010. Cambridge, Massachusetts, USA.

2009

Engaging Data: First International Forum on the Application and Management of Personal Electronic Information

– Dates: October 12-13, 2009. Massachusetts Institute of Technology Cambridge, MA.

Transparent Text Symposium.

– Title: *Twittermood*. Dates: September 21-22, 2009. IBM Center for Social Software, Cambridge MA.

Center for Cancer Systems Biology Retreat.

– Title: *Link clustering reveals multi-scale structural complexity in networks*. Dates: July 20-22, 2009. Annisquam, Massachusetts, USA.

EMMDS: European Workshop on Challenges in Modern Massive Data Sets.

– Invited Speaker. Title: *Connections Matter. Communities of Links in Complex Network*. Date: July 4, 2009. Copenhagen, Denmark.

NetSci09: International Workshop and Conference on Network Science.

– Title: *Link clustering using partition density*. Dates: June 29-July 3, 2009. Venice, Italy.

CAIDA. University of California, San Diego.

– Title: *Connections matter. Link-communities in complex networks*. Date: April 10, 2009. San Diego, California, USA.

NSF Workshop: Opportunities and Challenges in Uncertainty Quantification for Complex Interacting systems.

– Session Moderator. Dates: April 12-14, 2009, University of Southern California, California, USA.

Santa Fe Institute.

– Title: *Connections matter. Communities of links in complex networks*. Dates: January 19-23, 2009. New Mexico, USA.

2008

NIPS Conference (Stochastic Models of Behavior Workshop).

– Title: *Human Activity Patterns*. Dates: December 10-14, 2008. Vancouver/Whistler, Canada.

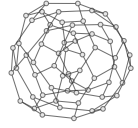
JointNet Seminar, Boston University & Center for Complex Network Research.

– Title: *A quantitative analysis of measures of scientific quality*. Date: December 4, 2008. Boston, Massachusetts, USA.

Tenth Annual Greater Boston Area Statistical Mechanics Meeting.

– Title: *Communities in bipartite networks*. Date: October 18, 2008. Brandeis University, Massachusetts, USA.

Networks, Complexity and Economic Development. Guest Lecturer.



- Title: *Community Detection*. Date: October 7, 2008. Harvard Kennedy School, Cambridge, Massachusetts, USA.
Center for Cancer Systems Biology Retreat.
- Title: *Bipartite networks: Why biologists should care*. Dates: June 30-July 1, 2008. Annisquam, Massachusetts, USA.
NetSci08: International Workshop and Conference on Network Science.
- Title: *Bi-clique Communities*. Dates: June 23-27, 2008. Norwich, UK.
JointNet Seminar, Boston University & Center for Complex Network Research.
- Title: *Synchronized Communities in Social Networks*. Date: June 12, 2008. Boston, Massachusetts, USA

2007

- 98th Statistical Mechanics Conference. (Rutgers University)
- Title: *Bi-clique Communities*. Dates: December 16-18, 2007. New Brunswick, New Jersey, USA.
FishNet Meeting. Invited talk.
- Title: *Endimensionale kvalitetsmål*. Date: June 22, 2007. Tune Kursuscenter. Denmark.
Third Intelligent Sound Workshop.
- Title: *Networks and Musical Genres*. Dates: May 21-23, 2007. Karlslunde Strand, Denmark.
Sixth Annual General Meeting of the European Association of Science Editors.
- Title: *Measures for measures: On the way to a career forecast?*. Date: May 14, 2007. Barcelona, Spain.
Center for Complex Network Research, University of Notre Dame. Invited seminar talk.
- Title: *Measures for measures*. Date: February 22, 2007. South Bend, Indiana, USA.
Evolution of Molecular Networks, Kavli Institute of Theoretical Physics.
- Dates: January 16-April 13, 2007. U.C. Santa Barbara, California, USA.

2006

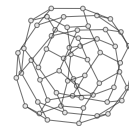
- BioComplexity Group Meeting. Invited seminar talk.
- Title: *Measures for Measures. Scientific papers, networks, and all that*. Date: November 15, 2006. Niels Bohr Institute, Copenhagen, Denmark.

2005

- Institute for Theoretical Physics, Lund University. Invited seminar talk.
- Title: *Segmentation and Tracking in Biological Systems*. Date: October 10, 2005. Lund, Sweden.
Inaugural Workshop for Intelligent Sound Project.
- Title: *Social Network Models*. Date: August 15-18, 2005. Korsør, Denmark.
SIAM International Conference on Data Mining
- Title: *Live and Dead Nodes*. Date: April 21-23, 2005. Newport Beach, California, USA.

2004

- BioComplexity Meeting, Niels Bohr Institute.
- Title: *Life, Death, and Bayesian Statistics: A networked perspective*. Date: October 10, 2004. Niels Bohr Institute, Copenhagen, Denmark.
- Bi-Annual CISP Workshop.
- Title: *Social network modeling*. Dates: May 24-27, 2004. Copenhagen, Denmark.



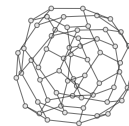
Conference organization

- ↔ **Organizing Committee.** *NetSci 2013. International Conference on Complex Networks.* Copenhagen, Denmark June 3-7, 2013
- **Program Committee.** *CIP 2012 - The 3rd International Workshop on Cognitive Information Processing.* Baiona Spain. May 28-30, 2012.
- **Program Committee.** *Self-organizing Complex Systems (SCS 2012)* track of ACM Symposium on Applied Computing. Riva del Garda (Trento), Italy. March 25-29, 2012.
- ↔ **Program Committee** (social networks track). *WWW 2012 - World Wide Web 2012.* Lyon Convention Centre, Lyon, France. April 16-20, 2012.
- **Technical Program Committee** *SIMPLEX 2012: 4th Annual Workshop on Simplifying Complex Networks for Practitioners* Co-located with WWW2012. Lyon Convention Centre, Lyon, France. April 17, 2012.
- **Program Committee.** *CompleNET 2012 - 2nd Workshop on Complex Networks* Melbourne, Florida USA. March 7-9, 2012.
- **Program Committee.** *SocioAware 2011: First International Workshop on Socio-Aware Networked Computing Systems.* Ann Arbor, Michigan, USA. October 3, 2011.
- **Program Committee.** *Finding Patterns of Human Behaviors in Network and Mobility Data (NEMO)* a half-day workshop at The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECMLPKDD 2011), Athens, Greece. September 9, 2011.
- **Program Committee.** *Self-organizing Complex Systems (SCS 2011)* track of ACM Symposium on Applied Computing, Tunghai University, TaiChung, Taiwan, March 21-25, 2011.
- **Program Committee.** *CompleNET 2010 - 2nd Workshop on Complex Networks* Forum of Science and Culture in Rio de Janeiro, Brazil. October 13-15, 2010.
- **Program Committee.** *First Workshop on Analysing Complex Networks 2010.* A workshop at The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECMLPKDD 2010), Barcelona, Spain, September 20-24, 2010.
- ↔ **Organizing Committee.** *High Throughput Humanities.* A satellite meeting at the European Conference on Complex Systems (ECCS2010), Lisbon University Institute ISCTE in Lisbon, Portugal, September 15, 2010. A report about the workshop was published in the Complex Systems Society's *ASSYST Newsletter*, No. 14, January 2011¹. Selected papers from the workshop will be published in the *Leonardo Journal* (MIT Press).
- **Program Committee.** *Self-organizing Complex Systems* track of ACM Symposium on Applied Computing, Sierre, Switzerland, March 21–26, 2010.

Funding, prizes, and stipends

- Villum foundation *Young Investigator* 5-year grant (~ USD 1 200 000), 2012
- Reinholdt W. Jorck's prize (~ USD 35 000), 2011.
- The Danish Natural Science Research Council PostDoc Stipend (~ USD 147 000), 2007.
- The Knud Højgaard Foundation (Travel Stipend), 2005.
- The Oticon Foundation (Travel Stipend), 2005.
- The Otto Mønsted Foundation (Travel Stipend), 2005.
- Frederikke Lørup f. Helms Mindelegat (Stipend awarded for academic excellence), 2002.

¹<http://assystcomplexity.eu/short/?id=98/>



Honors/Visits/etc

- Group leader of Danish section of the *Nordic Network for Network Science* grant (2011-2013), supported by *NordForsk*.
- Visiting Scholar, Center for Complex Network Research (w. David Lazer), June-July, 2011.
- Work on sentiment analysis of *Twitter* messages (with A Mislove, YY Ahn, J-P Onnela, and NJ Rosenquist) received world-wide press coverage (e.g. *New York Times*, *Scientific American*), as well as multiple US television pieces, most notably on the *CBS Evening News*. Full details can be found at <http://sunelehmann.com/press/>.
- Co-editor/contributor to the *Complexity and Social Networks Blog* (<http://www.iq.harvard.edu/blog/netgov/>).
- Organizer of the *JointNet Seminar Series* at the Center for Complex Network Research (CCNR), Northeastern University, Boston, Massachusetts, 2010. — Best poster award (with M. Schich and J. Park), International Workshop on Challenges and Visions in the Social Sciences at ETH, Zurich, Switzerland, 2008.
- Reviewer for the NSF (National Science Foundation), USA.
- Reviewer for *Proceedings of the National Academy of Sciences, USA, PloS ONE, New Journal of Physics, Journal of Statistical Mechanics, Data Mining and Knowledge Discovery, Neurocomputing, Algorithms for Molecular Biology, Physica A, Journal of the American Society for Information Science and Technology*.
- Visiting Scholar, Santa Fe Institute, NM (w. Nathan Eagle), Jan 2009.
- Visiting Scholar, U.C. Berkeley, CA (w. Lek-Heng Lim), Jan 2008.
- Visiting Scholar, Kavli Institute of Theoretical Physics, U.C. Santa Barbara, CA (w. Boris Shraiman). Several visits: Jan-Jun 2005, Feb 2006, Apr 2007.

Personal References

Professor **Albert-Laszlo Barabasi**

Center for Complex Network Research, Department of Physics, Northeastern University, Boston, MA 02115.

Email: barabasi@gmail.com.

Professor **David Lazer**

Political Science and Computer Science Northeastern University, Boston, MA 02115 & Director, Program on Networked Governance, Harvard Kennedy School, Harvard University, Cambridge, MA 02138.

Email: davelazer@gmail.com.

Professor **Lars Kai Hansen**

Informatics and Mathematical Modeling, Technical University of Denmark. DK-2800 Kgs. Lyngby, Denmark.

Email: lkh@imm.dtu.dk.

Professor **Andrew D. Jackson**

The Niels Bohr Institute, University of Copenhagen, DK-2100 Copenhagen, Denmark.

Email: jackson@nbi.dk.