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## **Curriculum vitae of Per Block**

(August 2023)

### **Academic Degrees**

- 2010 - 2014 DPhil in Sociology, University of Oxford, Department of Sociology, United Kingdom. Thesis title “A situational understanding of friendship networks”.
- 2009 - 2010 MSc in Sociology, University of Oxford, Department of Sociology, United Kingdom.
- 2003 - 2008 Diplom in Chemistry, Philipps University Marburg, Department of Chemistry, Germany.

### **Academic Positions**

- Sep 2022 - SNF Eccellenza Professor, Department of Sociology, University of Zurich.
- 2020 - Research Lecturer (Asst. Prof) at the Department of Sociology and the  
Aug 2022 Leverhulme Centre for Demographic Science, University of Oxford.
- 2014 - 2019 Post-doctoral researcher and lecturer at the Chair of Social Networks,  
Department of Humanities, Social and Political Sciences, ETH Zürich.
- 2016 - 2018 ETH Fellow at the Chair of Social Networks, Department of Humanities,  
Social and Political Sciences, ETH Zürich.

### **Other Affiliations**

- Sep 2022 - Associate Member at the Department of Sociology and the Leverhulme Centre  
for Demographic Science, University of Oxford.
- Mar 2020 - Associate Member Nuffield College, University of Oxford.

### **Leave**

- Mar - Jul '21 Parental leave.
- Oct - Dec '23 Parental leave.

## **Publications**

(\* indicates equal contribution)

### Pre-prints

### Published

Block, P., Stadtfeld, C., & Keiser, N. (2023). MoNAn: Mobility Network Analysis. *Note: Software package for use in R*. <https://github.com/perblock/MoNAn>.

Block, P., Keiser, N. (2023). *Manual for MoNA in R*. Zurich: University of Zurich, Department of Sociology. doi:10.31235/osf.io/8q2xu.

Hoffman, M., Block, P., & Snijders, T. (2023). Modelling partitions of individuals. *Sociological Methodology*, 53(1), 1-43.

Block, P. (2023). Understanding the self-organization of occupational sex segregation with mobility networks. *Social Networks*, 73, 42-50.

\*Block, P. & \*Burnett Heyes, S. (2022). Sharing the load: Contagion and Tolerance of Mood in Social Networks. *Emotion*, 22(6), 1193-1207.

Block, P., Stadtfeld, C., & Robins, G. (2022). A statistical model for the analysis of mobility tables as weighted networks with an application to faculty hiring networks. *Social Networks*, 68, 264-278.

Block, P., Hollway, J., Koskinen, J., Snijders, T. & Stadtfeld, C. (2022). Circular specifications and ‘predicting’ with information from the future: Errors in the empirical SAOM-TERGM comparison of Leifeld and Cranmer (2019). *Network Science*, 10(1), 3-14.

Block, P., Hoffman, M., Raabe, I. J., Dowd, J. B., Rahal, C., Kashyap, R. & Mills, M. C. (2020). Social network-based distancing strategies to flatten the COVID-19 curve in a post-lockdown world. *Nature Human Behavior*, 4(6), 588–596.

Dowd, J. B., Block, P., Rotondi, V., & Mills, M. C. (2020). Dangerous to claim “no clear association” between intergenerational relationships and COVID-19. *Proceedings of the National Academy of Sciences (PNAS)*, 117(42), 25975-25976.

Dowd, J. B., Andriano, L., Brazel, D. M., Rotondi, V., Block, P., Ding, X., Liu, Y. & Mills, M. C. (2020). Demographic science aids in understanding the spread and fatality rates of COVID-19. *Proceedings of the National Academy of Sciences (PNAS)*, 117(18), 9696-9698.

Hoffman, M., Block, P., Elmer, T., & Stadtfeld, C. (2020). A model for the dynamics of face-to-face interactions in social groups. *Network Science*, 8(S1), S4-S25.

\*Vörös, A., \*Block, P. & \*Boda, Z. (2019). Limits to inferring status from friendship relations. *Social Networks*, 59, 77-97.

- Block, P., Stadtfeld, C. & Snijders, T. A. B. (2019). Forms of Dependence: Comparing SAOMs and ERGMs from Basic Principles. *Sociological Methods and Research*, 48(1), 202-239.
- \*Lopes, P. C., \*Block, P., Pontiggia, A., Lindholm, A. & König, B. (2018). No evidence for kin protection in the expression of sickness behaviors in house mice. *Scientific Reports*, 8.
- Block, P. (2018). Network Evolution and Social Situations. *Sociological Science*, 5, 402-431.
- \*Block, P., \*Heathcote, L. C. & \*Burnett Heyes, S. (2018). Social Interaction and Pain: An Arctic Expedition. *Social Science and Medicine*, 196, 47-56.
- Block, P., Koskinen, J., Hollway, J., Steglich, C. & Stadtfeld, C. (2018). Change we can believe in: Comparing longitudinal network models on consistency, interpretability and predictive power. *Social Networks*, 52(1), 180-191.
- Stadtfeld, C., Hollway, J. & Block, P. (2017). Dynamic Network Actor Models: Investigating Coordination Ties through Time. *Sociological Methodology*, 47, 1-40.
- Stadtfeld, C., Hollway, J. & Block, P. (2017). DyNAMs and the Grounds for Actor-Oriented Network Event Models: A Rejoinder to Snijders and Butts. *Sociological Methodology*, 47, 56-67.
- Stadtfeld, C. & Block, P. (2017). Interactions, Actors, and Time: Dynamic Network Actor Models for Relational Events. *Sociological Science*, 4, 318-352.
- Lopes, P. C., Block, P. & König, B. (2016). Infection-induced behavioural changes reduce connectivity and the potential for disease spread in wild mice contact networks. *Scientific Reports*, 6.
- Block, P. (2015). Reciprocity, transitivity and the mysterious three-cycle. *Social Networks*, 40(1), 163-173.
- \*Burnett Heyes, S., \*Jih, Y.-R., \*Block, P., Holmes, E. & J. Lau. (2015). Relationship Reciprocity Modulates Cooperative Investment in Late- but not Mid-Adolescent Real-world Social Networks. *Child Development*, 86(5), 1489–1506.
- Block, P. & Grund, T. (2014). Multidimensional Homophily in Friendship Networks. *Network Science*, 2(2), 189-212.

### **Major Media and Policy Coverage of Research**

Understanding occupational sex segregation... (examples): *Print/online*: Tagesanzeiger (Switzerland), Le Temps (Switzerland), El Plural (Spain), der Standard (Austria), Le Matin (France), Daily Mail (UK), ...; *Radio*: MDR (Germany), BR (Germany), Radio Bern 1 (Switzerland).

Sharing the load... (examples): Print/online: National Geographic (US), The Guardian (UK), The Times (UK) ...; Radio: BBC4 (UK), Times Radio (UK), Newstalk (Ireland)... TV: KAN11 (Israel).

Social network-based distancing strategies... (examples): Print/online: CNN (US), Politico (US), Smithsonian Magazine (US), Die Welt (Germany), BBC mundo (Latin America), Il Post (Italy), NZZ (Switzerland)... Radio: NPR (US), CBC (Canada), BBC5 (UK)... TV: Euronews (Europe), Bloomberg (US)... Policy: European Centre for Disease Prevention and Control, UK Parliament brief.

Demographic science aids in understanding... (examples): Print/online: Wall Street Journal (US), La Repubblica (Italy), The Economist (UK), DN (Sweden)... Radio: WDR (Germany), BBC 5 (UK)... TV: NOS (Netherlands), France TV (France), BBC News (UK), TV Asahi (Japan)...

Infection-induced behavioural changes... (examples): Print/online: The Washington Post (US) Radio: Deutschlandfunk (Germany) TV: SRF (Switzerland).

### **Major Prizes, Awards and Grants (as PI or Co-PI)**

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|-----------|--|
| 2021      | SNF Eccellenza Professorial Fellowship (“Labour Markets as Emergent Mobility Networks”, personal grant, ~1’800’000 CHF)  |
| 2021      | O <sup>2</sup> RB Excellence in Impact Award (for “Data driven policy interventions during the COVID-19 pandemic”, with Melinda Mills, Jennifer Dowd & team; awarded by a consortium of UK universities) |
| 2018      | SNF project grant (“Social lives in digital networks”, with C. Stadtfeld, ~250’000 CHF)  |
| 2015      | ETH Fellowship, ETH Zürich (personal grant, 225’700 CHF).  |
| 2014      | Best Student Paper Award 2014, Sunbelt XXXIV, International Network of Social Network Analysis (INSNA) (2’500 USD).  |
| 2010-2013 | Nuffield College Studentship, Nuffield College, University of Oxford (37’500 GBP).   |
| 2010-2011 | Departmental Bursary, Department of Sociology, University of Oxford. (3’500 GBP)   |

### **Editorial functions**

- 2023 - Member Editorial Board *Sociological Methodology*

### **Conference & Workshop Organisation**

- Dec 2023 “10<sup>th</sup> Duisterbelt”, 3 day conference about the statistical modelling of networks in Zurich.

- Oct 2023 “Analysing mobility networks with MoNAn in R”, 3 day workshop at the University of Zurich.
- Sep 2023 Member of the Scientific Committee for the “European Social Networks Conference 2022” in Ljubljana.
- Sep 2022 Member of the Scientific Committee for the “European Social Networks Conference 2022” in London.
- Sep 2019 Member of the Scientific Committee for the “European Social Networks Conference 2019” in Zürich.
- Mar 2019 “Future social network studies: new questions, new data, new methods”, 2 day workshop at ETH Zürich.
- Feb 2016 “8th SIENA Winter School on Longitudinal Social Network Analysis” and the “2016 Advanced Siena Users Meeting (AdSUM-2016)” at ETH Zürich.
- April 2015 Workshop on the statistical modelling of Social Networks at ETH Zürich.

### **Review for Scientific Journals and Funding Bodies**

American Journal of Sociology, American Political Science Review, American Sociological Review, Connections, European Societies, Journal of Mathematical Sociology, Journal of Research on Adolescence, Journal of the Royal Statistical Society: Series A, Nature Communications, Nature Human Behavior, Network Science, Personality and Social Psychology Bulletin, Psychometrika, Research on Social Stratification and Mobility, Scientific Reports, Social Forces, Social Networks, Social Psychology Quarterly, Sociological Focus, Sociological Methodology, Sociological Methods and Research, Socius, Statistical Methods & Application, Swiss National Science Foundation.

### **Invited Lectures**

*Surpassing class-based explanations: Networks of intra-generational occupational mobility*, Symposium on Networks and Inequalities, Copenhagen Business School, Copenhagen, Denmark, 12 May 2022.

*Network studies of pain and mood in isolated groups*, Department of Sociology Seminar Series (online), University of Oxford, United Kingdom, 12 Oct 2020.

*Simulating disease spread with statistical network models to design behavioural recommendations*, Social Simulation Week (online), virtual event by the European Social Simulation Association, 17 Sep 2020.

*Social Distancing and Contact Networks*, Social Science Division Meeting (online), Oxford, United Kingdom, 22 May 2020.

*Temporal high-resolution networks in isolated groups*, Mitchell Centre for Social Network Analysis Seminar Series (online), Manchester, United Kingdom, 06 May 2020.

*Beyond variables: Analysing mobility as a network problem*, Max Planck Institute for Demographic Research, Rostock, Germany, 23 Apr 2019.

*Modelling Mobility Tables as Weighted Networks*, Social Networks Research Group Seminar, University of California Irvine (UCI), USA, 14 Feb 2018.

*Mobility Networks and Occupational Sex Segregation*, Sociology Seminar, University of California Santa Barbara (UCSB), USA, 07 Feb 2018.

*Modelling Mobility Tables as Weighted Networks*, Statistics Seminar Series, University of California Los Angeles (UCLA), USA, 06 Feb 2018.

*Occupational Mobility Networks*, Nuffield College Sociology Seminar, Nuffield College, University of Oxford, United Kingdom, 25 Oct 2017.

*Friendship networks and social situations*, Guest Lecture, Department of Psychology, University of Birmingham, United Kingdom, 10 Jul 2017.

*Occupational Mobility Networks*, HHUiS lunch seminar, University of Stavanger, Norway, 28 Feb 2017.

*Analysing Networks of Occupational Mobility*, Greenwich Network Seminar Series, London, United Kingdom, 26 May 2016.

*Friendship Networks and Social Situations*, Guest Lecture, USI Lugano, Switzerland. 13 May 2016.

*Friendship Network Evolution and the Relationship of Different Network Evolution Mechanisms*, Guest Lecture, Technische Universität Braunschweig, Germany, 25 Aug 2014.

*Homophily and segregation in adolescent friendships: A social network perspective*, IFFS seminar series, Stockholm, Sweden, 04 Apr 2014.

*A Situational Understanding of Social Networks*, NNNR Seminar Series, Nuffield College, University of Oxford, United Kingdom, 11 Nov 2013.

*A Situational Understanding of Social Networks*, Sociology colloquium at the University of Groningen, The Netherlands, 17 Oct 2013.

*Homophilous Influence in Friendship Networks*, Mitchell Centre for Social Network Analysis Seminar Series, Manchester, United Kingdom, 31 Oct 2012.

*Identifying Mechanisms of Homophily using Multiple Similarities*, NNNR Seminar Series, Nuffield College, University of Oxford, United Kingdom, 13 Feb 2012.

### **Selection of Conference Presentations**

*Structural differences between upward and downward intergenerational micro-class mobility*. RC28, Paris, France, 25 May 2023.

*Too many, too small networks, outcomes, and time-point.* EUSN 2022, London, UK, 15 Sep 2022.

*On the Mismatch between theoretical and statistical models.* EUSN 2021, (online), Naples, Italy, 09 Sep 2021.

*Is depression actually really contagious?* EUSN 2019, Zurich, Switzerland, 08 Sep 2019.

*Surpassing class-based explanations: Networks of intra-generational occupational mobility,* RC28, Frankfurt, Germany, 21 Mar 2019.

*Networks of intra-generational occupational mobility,* ECSR 2018 conference, Paris, France, 30 Oct 2018.

*Limits to Inferring status from Friendship Nominations in Network data,* Sunbelt XXXVIII, Utrecht, the Netherlands, 29 June 2018.

*Occupational Mobility Networks,* EUSN, Mainz, Germany, 27 Sep 2017.

*Social Interaction and Pain: An Arctic Expedition,* Sunbelt XXXVII, Beijing, China, 02 Jun 2017.

*Occupational Mobility Networks,* RC28, Bern, Switzerland, 30 Aug 2016.

*And then the ties had weights: A network distribution Model,* EUSN, Paris, France, 15 Jun 2016.

*Analysing Networks of Occupational Mobility,* INAS, Utrecht, The Netherlands, 04 Jun 2016.

*Comparing ERGMs and SAOMs from basic principles,* Sunbelt XXXV, Brighton, United Kingdom, 26 Jun 2015.

*Networks Evolution Mechanisms and Social Situations,* INAS, Harvard, United States of America, 12 Jun 2015.

*The Mysterious Three-Cycle,* Sunbelt XXXIII, Hamburg, Germany, 25 May 2013.

### **Teaching University courses**

Spring 2023 MSc/BSc Sociology course at University of Zurich, 6 ECTS, *Methods of Social Network Analysis*.

Fall 2022, 2023 MSc/BSc Sociology course at University of Zurich, 6 ECTS, *Occupational Choice and Job Mobility*.

Fall 2020, 2021 MSc Sociology course at University of Oxford, 4hrs per week, *Introduction to Statistics*.

Spring 2020-2022 MSc Sociology course at University of Oxford, lecturer special topic (course convenor: Jennifer Dowd), *Advanced quantitative Methods*.

- Spring 2019 Course at ETH Zürich, 2 ECTS, *Sociological Analysis*.
- Fall 2015-2018 Course at ETH Zürich, 2 ECTS (with changing partners), *Recent debates in Social Network Research*.
- Spring 2015-2017 Course at ETH Zürich, 3 ECTS (with Christoph Stadtfeld), *Introduction to Social Networks: Theory, Methods and Applications*.
- Spring 2012 Tutorial based course for the Sarah Lawrence Program, Wadham College: *Introduction to Social Network Analysis*.

### **Teaching workshops**

- Oct 2023 Workshop at the University of Zurich (three days), *Analysing mobility networks with MoNAn in R*.
- Sep 2022 Workshop at EUSN 2022 (one day), *Introduction to Dynamic Social Network Analysis with Stochastic Actor-Oriented Models*.
- Sep 2019 Workshop at EUSN 2019 (one day, with Zsofia Boda, Andras Vörös, Isabel Raabe), *Introduction to Dynamic Social Network Analysis with Stochastic Actor-Oriented Models*.
- Jun 2017 Workshops at Sunbelt XXXVII, Beijing (one day, with Zsofia Boda, Andras Vörös): *Analysis of Longitudinal Network Data using RSiena. AND Advanced Siena and Actor-Oriented Modelling*.
- Feb 2017 *2017 Advanced Siena Users Meeting (AdSUM-2017)* at Linköping University (two days with Tom Snijders and Johan Koskinen).
- Aug 2016 6<sup>th</sup> International Summer School: *Theory and Methods of Longitudinal Social Network* at the Higher School of Economics, Moscow (four days, shared responsibility with Christoph Stadtfeld).
- Feb 2016 *8th SIENA Winter School on Longitudinal Social Network Analysis and the 2016 Advanced Siena Users Meeting (AdSUM-2016)* at ETH Zürich (six days with Christoph Stadtfeld, Zsofia Boda, Tom Snijders, Christian Steglich, Nynke Niezink).
- Jun 2015 Workshop at Sunbelt XXXV Conference, Brighton (one day, with Christian Steglich): *Analysis of Longitudinal Network Data using RSiena*.
- Aug 2014 Summer School in Ghent, International Centre for Reproductive Health (guest lecturer for two days): *Network statistics in health research*.
- Jul 2014 Summer School WSAD, University of Warsaw (one week, shared responsibility with Zsofia Boda, Christoph Stadtfeld, Andras Vörös): *Statistical Methods for the Analysis of Social Networks*.



- Mar 2014 Spring School at GESIS, University of Cologne (one week, with Tom Snijders): *Longitudinal Network Analysis*.
- Sep 2013 Summer School in Anacapri, Capri, org. by University of Salerno (one week, with Filip Agneessens, Marijtje van Duijn, Christoph Stadtfeld, Sanne Smith): *Statistical Models for Network Data*.
- Mar 2013 Workshop at the MZES, University of Mannheim (three days, with Christian Steglich and Christoph Stadtfeld): *Analysis of Longitudinal Network Data using RSiena*.

### **Supervision**

- 1 PostDoc at University of Zurich (since 2022)
- 2 PhD student at University of Zurich (since 2022)
- 8 MPhil and MSc students in Sociology at University of Oxford (2020 - 2022)
- 2 PhD students at ETH Zurich (2014-2019)
- 1 Master student in Statistics at ETH Zurich (2018)