

Michael Szell

Associate Professor

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Positions held

Associate professor, Data Science Section, IT University of Copenhagen, since Oct 2020

Affiliate, Pioneer Centre for Artificial Intelligence, since Feb 2023

External faculty, Complexity Science Hub Vienna, since Apr 2017

Founder and manager of Bayer & Szell OG, since Sep 2006

Past positions

Assistant professor, Computer Science Department, IT University of Copenhagen
Feb 2019 – Sep 2020

External researcher, ISI Foundation
Aug 2019 – Jul 2020, Nov 2021 – Oct 2024

Assistant professor, Department of Network and Data Science, Central European University
Oct 2017 – Jan 2019

Researcher, Centre for Economic and Regional Studies, Hungarian Academy of Sciences
Sep 2017 – Jan 2019

Adjunct visiting professor, Center for Complex Network Research, Northeastern University
Sep 2016 – Jan 2019

Research fellow, Centre for Social Sciences, Hungarian Academy of Sciences
Sep 2016 – Sep 2017

Researcher in residence, moovel lab, moovel Group GmbH
Sep 2016 – Dec 2016

Postdoctoral research associate, Center for Complex Network Research, Northeastern University
Jul 2014 – Sep 2016

Postdoctoral research fellow, Senseable City Laboratory, Massachusetts Institute of Technology
Apr 2012 – Jul 2014

Research assistant, Section for Science of Complex Systems, Medical University of Vienna
Jan 2009 – Dec 2011

Research interests

Primary: Urban/Geospatial data science, Sustainable mobility, Bicycle networks

Secondary: Network science, Complex systems, Social networks, Data visualization

Education

Ph.D. in Physics, summa cum laude, University of Vienna, Mar 2012

M.Sc. in Technical Mathematics, Vienna University of Technology, Oct 2007

Skills

Programming: Python, MATLAB, PHP, SQL, HTML/CSS

Data mining, Databases, Web scraping, Online game development

Languages: *Native* – German, Hungarian, *Proficient* – English, *Intermediate* – Italian, Danish

Publications

Preprints

C. Sebastiao, A. Vybornova, A.R. Vierø, L.M. Aiello, M. Szell

The Trade-Off between Directness and Coverage in Transport Network Growth

arXiv:2507.13005 (2025)

M. Coscia, C. Borgelt, M. Szell

Fast Multiplex Graph Association Rules for Link Prediction

arXiv:2211.12094 (2022)

Peer-reviewed publications

A. Vybornova, A.R. Vierø, M. Szell

BikeNodePlanner: a data-driven decision support tool for bicycle node network planning

Environment and Planning B 52(7), 1771–1780 (2025)

A.R. Vierø, M. Szell

Network analysis of the Danish bicycle infrastructure: Bikeability across urban-rural divides

Geographical Analysis 57(1), 52–87 (2025)

H. Wolf, A.R. Vierø, M. Szell

CoolWalks: Assessing the potential of shaded routing for active mobility in urban street networks

Scientific Reports 15, 14911 (2025)

L.M. Aiello, A. Vybornova, S. Juhász, M. Szell, E. Bokányi

Urban highways are barriers to social ties

Proceedings of the National Academy of Sciences 122(10), e2408937122 (2025)

A. Lonardi, M. Szell, C. De Bacco

Cohesive urban bicycle infrastructure design through optimal transport routing in multilayer networks

Journal of the Royal Society Interface 22(223), 20240532 (2025)

C.M. Büth, A. Vybornova, M. Szell

superblockify: A Python Package for Automated Generation, Visualization, and Analysis of Potential Superblocks in Cities

Journal of Open Source Software 9(100), 6798 (2024)

A. Rahbek Vierø, A. Vybornova, M. Szell

How Good Is Open Bicycle Network Data? A Countrywide Case Study of Denmark

Geographical Analysis 57(1), 52–87 (2025)

D. Rhoads, C. Rames, A. Solé-Ribalta, M.C. González, M. Szell, J. Borge-Holthoefer

Sidewalk networks: Review and outlook

Computers, Environment and Urban Systems 106, 102031 (2023)

A. Rahbek Vierø, A. Vybornova, M. Szell

BikeDNA: A Tool for Bicycle Infrastructure Data & Network Assessment

Environment and Planning B 51(2), 512–528 (2024)

A. Battiston, L. Napoli, P. Bajardi, A. Panisson, A. Perotti, M. Szell, R. Schifanella

Revealing the determinants of gender inequality in urban cycling with large-scale data

EPJ Data Science 12, 9 (2023)

S.M. Breum, B. Kostic, M. Szell

Computational Desire Line Analysis of Cyclists on the Dybbølsbro Intersection in Copenhagen

Transport Findings 56683 (2022)

P. Folco, L. Gauvin, M. Tizzoni, M. Szell

Data-driven bicycle network planning for demand and safety

Environment and Planning B 50(8), 2087–2102 (2023)

L. Alessandretti, L.G. Natera Orozco, M. Saberi, M. Szell, F. Battiston

Multimodal urban mobility and multilayer transport networks

Environment and Planning B 50(8), 2038–2070 (2023)

M. Klanjčić, L. Gauvin, M. Tizzoni, M. Szell

Identifying urban features for vulnerable road user safety in Europe

EPJ Data Science 11, 27 (2022)

M. Szell, S. Mimar, T. Perlman, G. Ghoshal, R. Sinatra

Growing urban bicycle networks

Scientific Reports 12, 6765 (2022)

A. Vybornova, T. Cunha, A. Gühnemann, M. Szell

Automated Detection of Missing Links in Bicycle Networks

Geographical Analysis 55(2), 239–267 (2023)

M. Coscia, M. Szell

Multiplex Graph Association Rules for Link Prediction

Proceedings of the International conference on Web and Social Media (ICWSM) 15(1), 129–139 (2021)

M. Schläpfer, L. Dong, K. O’Keeffe, P. Santi, M. Szell, H. Salat, S. Anklesaria, M. Vazifeh, C. Ratti, G.B. West

The universal visitation law of human mobility

Nature 593(7860), 522–527 (2021)

L.G. Natera Orozco, F. Battiston, G. Iñiguez, M. Szell

Data-driven strategies for optimal bicycle network growth

Royal Society Open Science 7:201130 (2020)

L.G. Natera Orozco, F. Battiston, G. Iñiguez, M. Szell

Extracting the multimodal fingerprint of urban transportation networks

Transport Findings 13171 (2020)

F. Battiston, F. Musciotto, D. Wang, A.-L. Barabási, M. Szell, R. Sinatra

Taking census of physics

Nature Reviews Physics 1, 89–97 (2019)

M. Szell, Y. Ma, R. Sinatra

A Nobel opportunity for interdisciplinarity

Nature Physics 14, 1075–1078 (2018)

M. Szell

Crowdsourced quantification and visualization of urban mobility space inequality

Urban Planning 3, 1–20 (2018)

S. Grauwin, M. Szell, S. Sobolevsky, P. Hövel, F. Simini, M. Vanhoof, Z. Smoreda, A.-L. Barabási, C. Ratti

Identifying the structural discontinuities of human interactions

Scientific Reports 7, 46677 (2017)

R. Tachet, O. Sagarra, P. Santi, G. Resta, M. Szell, S. Strogatz, C. Ratti

Scaling law of urban ride sharing

Scientific Reports 7, 42868 (2017)

M. Nyhan, S. Sobolevsky, C. Kang, P. Robinson, A. Corti, M. Szell, D. Streets, Z. Lu, R. Britter, S.R.H. Barrett, C. Ratti

Predicting vehicular emissions in high spatial resolution using pervasively measured transportation data and microscopic emissions model

Atmospheric Environment 140, 352–363 (2016)

R. Sinatra, P. Deville, M. Szell, D. Wang, A.-L. Barabási

A century of physics

Nature Physics 11, 791–796 (2015)

O. Sagarra, M. Szell, P. Santi, A. Diaz-Guilera, C. Ratti

Supersampling and network reconstruction of urban mobility

PLOS ONE 10(8), e0134508 (2015)

O. Mryglod, B. Fuchs, M. Szell, Y. Holovatch, S. Thurner

Interevent time distributions of human multi-level activity in a virtual world

Physica A 419, 681–690 (2014)

P. Santi, G. Resta, M. Szell, S. Sobolevsky, S. Strogatz, C. Ratti

Quantifying the benefits of vehicle pooling with shareability networks

Proceedings of the National Academy of Sciences 110(37), 13290–13294 (2014)

M. Szell, S. Grauwin, C. Ratti

Contraction of online response to major events

PLOS ONE 9(2), e89052, (2014)

R. Sinatra, M. Szell

Entropy and the predictability of online life

Entropy 16(1), 543–556 (2014)

S. Sobolevsky, M. Szell, R. Campari, T. Couronné, Z. Smoreda, C. Ratti

Delineating geographical regions with networks of human interactions in an extensive set of countries

PLOS ONE 8(12), e81707 (2013)

S. Thurner, P. Klimek, M. Szell, G. Duftschmid, G. Endel, A. Kautzky-Willer, D. Kasper
Quantification of excess-risk for diabetes when born in times of hunger, in an entire population of a nation, across a century
Proceedings of the National Academy of Sciences 110, 4703–4707 (2013)

M. Szell, S. Thurner
How women organize social networks different than men
Scientific Reports 3, 1214 (2013)

M. Szell, R. Sinatra, G. Petri, S. Thurner, V. Latora
Understanding mobility in a social petri dish
Scientific Reports 2, 457 (2012)

M. Szell, S. Thurner*
Social dynamics in a large-scale online game
Advances in Complex Systems 15, 1250064 (2012)

S. Thurner, M. Szell, R. Sinatra
Emergence of good conduct, scaling and Zipf laws in human behavioral sequences in an online world
PLOS ONE 7, e29796 (2012)

M. Szell, S. Thurner
Measuring social dynamics in a massive multiplayer online game
Social Networks 32, 313–329 (2010)

M. Szell, R. Lambiotte, S. Thurner
Multirelational organization of large-scale social networks in an online world
Proceedings of the National Academy of Sciences 107, 13636–13641 (2010)

Other academic publications

L. Alessandretti, M. Szell
Urban Mobility
 in: *Compendium of Urban Complexity*, Springer, Ed.: D. Rybski (2025)

A.R. Vierø, M. Szell
Teaching spatial data science
Geoforum Perspektiv 23(44), 52–57 (2024)

M. Szell, Y. Ma, R. Sinatra
Was the Nobel prize for physics? Yes – not that it matters
Nature 634, 782 (2024)

B. Resch, M. Szell
Human-Centric Data Science for Urban Studies
ISPRS International Journal of Geo-Information 8, 584 (2019)

Y. Holovatch, O. Mryglod, M. Szell, S. Thurner
Analyses of a virtual world
 in: *Math Meets Myth: Complexity-science approaches to folktales, myths, sagas, and histories*, Springer, Eds.: R. Kenna, M. Maccarron, P. Maccarron (2017)

M. Szell, R. Sinatra
Research funding goes to rich clubs
Proceedings of the National Academy of Sciences 112(48), 14749–14750 (2015)

M. Szell, P. Santi, C. Ratti

Trip sharing in the era of self-driving cars

Autonomous Vehicles conference, New York University (2015)

P. Santi, G. Resta, M. Szell, S. Sobolevsky, S. Strogatz, C. Ratti

Reply to Lopez et al.: Sustainable implementation of taxi sharing requires understanding systemic effects

Proceedings of the National Academy of Sciences 111(51), E5489 (2014)

M. Szell, B. Groß

Hubcab – Exploring the Benefits of Shared Taxi Services

in: *Decoding the City*, De Gruyter, Eds.: D. Offenhuber, C. Ratti (2014)

M. Szell

Connecting Paradigms

Science 343(6147), 970–971 (2014)

M. Szell, B. Groß

Hubcab – Taxi-Fahrgemeinschaften, digital erkundet

in: *Die Stadt entschlüsseln*, Bauwelt Fundamente 150, Birkhäuser, Eds.: D. Offenhuber, C. Ratti (2013)

S. Thurner, P. Klimek, M. Szell, G. Duftschmid, G. Endel, A. Kautzky-Willer, D. Kasper

Reply to Klitz and Niklasson: Can viral infections explain the cross-sectional Austrian diabetes data?

Proceedings of the National Academy of Sciences 110, E2751 (2013)

M. Szell

Statistical physics approaches to large-scale socio-economic networks

Dissertation, University of Vienna (2011)

S. Thurner, M. Szell (Eds.)

Book of abstracts ECCS'11 Vienna

European conference on Complex Systems 2011, Löcker (2011)

M. Szell

Finite Differenzen Verfahren zur numerischen Lawinensimulation

Diploma thesis, Vienna University of Technology (2007)

M. Szell, F. Judex

Petri Net Modelling of Different Strategies in ARGESIM Comparison C4 “Dining Philosophers” with HPSim

Simulation News Europe 17, 1 (2007)

Other non-academic publications

A.F. Valderrama Pineda, A. Fjendbo Jensen, C. Samson, H. Lahrman, H. Rømmer Kristensen, J. Schipperijn, M. Paulsen, M. Freudendal-Pedersen, M. Szell, M. Hvidt Breengaard

Er Danmark en cykelnation?

Politiken (2022)

M. Szell

Identifying urban features for vulnerable road user safety in Europe

BMC Blog Network (2022)

O. Anker, S. Haustein, K. Hyldekær Janstrup, A. Fjendbo Jensen, M. Møller, J. Rich, M. Freudendal-Pedersen, O.B. Jensen, H. Lahrman, A. Valderrama, M. Szell, H. Skov-Petersen, J. Troelsen, J. Schipperijn

14 forskere: Videnscenter for cyklisme skal ikke høre under Vejdirektoratet
Altinget (2021)

M. Szell

Bæredygtige byer kræver målrettet investering i cykelinfrastruktur
Ingeniøren / Mobilitytech (2021)

M. Szell, J. Kickbusch

Brug ny mobilitetslov til at skabe et mere bæredygtigt byliv
FINANS (2021)

P. Heigren, M. Winding, M. Szell

Cykling i byen: Små investeringer i infrastruktur binder din by sammen
Ingeniøren / Mobilitytech (2021)

External research funding

Application as principal investigator

PI (consortium partner) in EU Horizon project *JUST STREETS – Mobility justice for all: framing safer, healthier and happier streets*

Jan 2024 – Jun 2027, €298,725 funding PhD student Clément Sebastiao

PI in Danish Ministry of Transport “Cykelpuljen” grant *Netværksanalyse af den danske cykelinfrastruktur*, with Ane Rahbek Vierø

Jan 2022 – Mar 2025, ~€271,000 (DKK 2,019,485) funding PhD student Ane Rahbek Vierø

Premium postdoctoral researcher in the Hungarian Academy of Sciences (MTA) grant *Conflict and Controversy in Large Social Networks*

Sep 2016 – Sep 2019, ~€77,000 (HUF 23,885,000) funding myself

Due to assuming an Assistant Professor position at CEU, I discontinued this grant in Oct 2017.

Participation

Co-leader in a sub-award of the Templeton grant *Using Big Data to Quantify and Cultivate Genius*, with Albert-László Barabási, Roberta Sinatra, Cesar Hidalgo

Sep 2018 – Aug 2021, ~€1,700,000 (USD 2,000,000)

The sub-award was won but declined.

Key research personnel in the Air Force Office of Scientific Research (AFOSR) grant *The Fundamentals of Predictability of Scientific Success*, with Albert-László Barabási, Alessandro Vespignani, Roberta Sinatra

Feb 2015 – Jan 2019, ~€861,000 (USD 956,629)

Key research personnel in the Austrian Science Fund (FWF) project P23378, *Quantifying socio-economic multiplex networks in a massive multiplayer online game*, with Stefan Thurner

Sep 2011 – Oct 2015, ~€275,000

Although this grant was funded, I did not assume the position due to my move to Boston (MIT) in 2012.

Travel and other grants

CEU ACRO Teaching development grant, Dec 2017

Industry support for organizing NetSci 2015 satellite NetSci Backstage, Jun 2015

Travel and accommodation support to one-month academic visit by ETH Zurich, Feb 2011

Travel grant from Österreichische Forschungsgemeinschaft to ECCS 2010, Sep 2010

Travel grant from the European Cooperation in Science and Technology, Action MPo8o1 Physics of Competition and Conflicts, to two-month academic visit to Imperial College, Aug-Sep 2010

Full travel and accommodation grant from Santa Fe Institute for three-week SFI Complex Systems Summer School 2010, Jun 2010

Data visualization and software projects

superblockify, Apr 2024, superblockify.city

superblockify is a Python package for partitioning an urban street network into Superblock-like neighborhoods and for visualizing and analyzing the partition results.

GrowBike.Net, Jul 2021, growbike.net

An interactive visualization platform growing cohesive urban bicycle networks - something that every modern city should have. Studying these synthetic networks informs us about the geometric limitations of urban bicycle network growth and can lead to better designed bicycle infrastructure in cities.

Taxonomy of Urban Bicycle Network Approaches, Jan 2021, github.com/mszell/taxonomybikenw

The idea of this visualization is to identify the most distinct environments for cycling arriving from different approaches of urban planning.

Stephen Hawking Career, March 2018, michael.szell.net/hawking

A Science of Science tribute to Stephen Hawking. This interactive plot allows the exploration of the influential physicist's oeuvre – scientific papers and books – and its impact.

What the Street!?, June 2017, whatthestreet.com

An online platform for intuitive and playful exploration of wasted mobility space in cities, of uneven distribution of space between different modes of transportation, and how massive areas of car parking could be regained for the public.

HubCab, Mar 2014, www.hubcab.org

An interactive visualization that invites you to explore the ways in which over 170 million taxi trips connect the City of New York in a given year. This interface provides a unique insight into the inner workings of the city from the previously invisible perspective of the taxi system with a never before seen granularity.

Tweet Bursts, Feb 2014, senseable.mit.edu/tweetbursts

Visual exploration of our collective excitement towards major events: The more excited we are, and the more intense the flurry of messages in the collective, the shorter our messages become.

Pardus, since Jul 2004, pardus.at

Pardus is an award-winning graphical browser-based MMORPG set in a persistent universe where players interact and compete in space, with a worldwide user base of over 450,000 players. Pardus' player society has been studied in over 20 research papers, referenced by hundreds of studies.

Presentations

Keynotes and invited presentations

145th EuroSDR Board of Delegates meeting, Copenhagen, Denmark, Nov 2024

Data Science of Bicycle Networks

DataBeers Copenhagen, Copenhagen, Denmark, Sep 2023
Stories from 1001 paths (over Dybbølsbro)

Büro Happold, Copenhagen, Denmark, Jul 2023
Urban Data and Network Science for More Cycling and Walking in Cities

Eurosolar Austria, Vienna, Austria, Apr 2023
Wie man optimale Radweg-Netze für Städte plant

Complexity Science Hub Vienna, Austria, Apr 2023
Bicycle infrastructure data and networks: Opportunities and limitations

CASA Seminar, London, UK (remotely), Dec 2022
Bicycle networks: From data quality assessment to computational analysis

ITU, Launch of Center for Climate IT, Copenhagen, Denmark, Dec 2022
Sustainable mobility and data-driven planning

Copenhagen Municipality, Copenhagen, Denmark, Nov 2022
Computational desire line analysis of cyclists on the Dybbølsbro intersection

Geographic data science lab: *Brown bag seminar*, Liverpool, UK, Sep 2022
Data-informed bicycle network planning: processes and criticisms

Keynote talk at *UA 2.0 – Towards greener and sustainable cities*, Exeter, UK, Jun 2022
Establishing a quantitative science of bicycle networks

ISI Foundation workshop, Turin, Italy, May 2022
Cycling research at NERDS

Physics and Collective Dynamics of Future Mobility workshop at Max Planck Institute, Dresden, Germany (remotely), Mar 2022
Towards a human-centric urban data science

General Assembly of the Cycling Embassy of Denmark, Copenhagen, Denmark, Mar 2022
Netværksanalyse af den danske cykelinfrastruktur

Copenhagen Municipality, Copenhagen, Denmark, Dec 2021
Finding the missing links in the Copenhagen bike network

Supercykelstier Frokostmøde, Copenhagen, Denmark, Dec 2021
Netværksanalyse af den danske cykelinfrastruktur

Urban Complex Systems satellite of CCS 2021 conference, Lyon, France (remotely), Oct 2021
Making cities better with human-centric urban data science

City Interaction Lab, Paris, France (remotely), May 2021
Vulnerable road user safety in Europe, and towards a science of bicycle network design

Supercykelstier, Copenhagen, Denmark (remotely), Mar 2021
Data-driven strategies for optimal bicycle network growth

MIT Medial Lab, Cambridge, USA (remotely), Sep 2020
Human-centric Urban Data Science with OpenStreetMap

EFC Funders Forum on Sustainable Cities, Turin, Italy, Oct 2019
Revealing wasted urban space with crowd-sourced data

Complex networks workshop, Lipari, Italy, Jul 2019
Taking census of Physics and of the Nobel Prize

DataBeers Copenhagen, Denmark, May 2019
Understanding wasted mobility space with crowdsourced urban data

Keynote talk at *Parallel Cities* Science Forum at *BLOXHUB*, Copenhagen, Denmark, Mar 2019
Measuring Mobility Space Inequality

Mathematical modelling seminar, Budapest, Hungary, Sep 2018
Mathematical modelling of human mobility

Complex networks workshop, Lipari, Italy, Jul 2018
 Quantitative analysis of urban shareability networks and mobility spaces
Big Dive at ISI Foundation, Turin, Italy, Jul 2018
 Urban data science towards sustainable cities: From taxi sharing to mobility space equality
 External Faculty Meetup at *Complexity Science Hub*, Vienna, Austria, May 2018
 Make cities great again: Understand urban complexity, but embrace simplicity
Urban Mobility OpenStreetMap Hungary Meetup, Budapest, Hungary, May 2018
 Using OpenStreetMap for Quantification and Visualization of Urban Mobility Space Inequality
 Keynote talk at *Innovation & Cooperation* event of Wiener Stadtwerke at TU Wien, Vienna, Austria, Apr 2018
 Urban Data Culture – Notwendigkeit und Chancen datenbasierter, interdisziplinärer Stadtentwicklung
AI and Urban Life satellite at NetSci-X 2018, Hangzhou, China, Jan 2018
 Exploring New York City Taxi Trails and Sharing Our Way to a More Sustainable Urban Future
 Invited talk at *Hungarian Academy of Sciences*, Budapest, Hungary, Nov 2017
 Exploring quantitatively sharing benefits and inequalities in urban transportation
 Workshop on Complex Systems at *Complexity Science Hub Vienna*, Vienna, Austria, Oct 2017
 Towards a quantitative understanding of cities using network science and large-scale data analysis
 Keynote talk at *COSTNET2017 conference*, Palma de Mallorca, Spain, Oct 2017
 Unveiling untapped potential in cities: From taxi sharing to mobility space inequality
Harvard University, Cambridge, USA, Jul 2017
 Visual exploration of urban mobility space inequality with What the Street!?
Northwestern University, Evanston, USA, Jul 2017
 Quantifying sharing benefits and injustice in urban transportation
Senseable City Lab, MIT, Cambridge, USA, Jun 2017
 Exploring the arrogance of space with What the Street!?
Quantifying success satellite at NetSci 2017, Indianapolis, USA, Jun 2017
 The success of teams and interdisciplinary research
 Talk at Center for Network Science, Central European University, Budapest, Hungary, May 2017
 Understanding social networks and collective behavior in online and urban environments
Physics of Flexible Mobility symposium at DPG Spring Meeting, Dresden, Germany, Mar 2017
 Mobility in shareability networks
moovel meetup at moovel Group GmbH, Stuttgart, Germany, Sep 2016
 The science of trip-sharing
 Seminar at “Lendület” Research Center for Educational and Network Studies (RECENS), Budapest, Hungary, Jan 2016
 Conflict and cooperation in large social networks
Autonomous Vehicles conference at New York University, New York, USA, May 2015
 Trip-sharing in the age of self-driving cars
Understanding Complexity conference, Vienna, Austria, Feb 2015
 Understanding Human Society with a Social Petri Dish
Zurich meets New York Festival at New York Academy of Science, New York, USA, May 2014
 Using virtual worlds to explore behavior of people
Social Network Analysis Colloquium at ETH Zürich, Switzerland, Feb 2014
 The Social Petri Dish and New Perspectives in Social Network Analysis
Urban Beers Meetup, Barcelona, Spain, Sep 2013
 Taxi pooling in New York City: a network-based approach to optimize shared mobility

FuturICT Workshop at MIT Medial Lab, Cambridge, Feb 2013

Online games as platforms for measuring socio-economic behavior

Macro Connections Seminar at Harvard University, Cambridge, USA, Oct 2011

Understanding collective socio-economic behavior in an online world

Talk at Barabasilab, Northeastern University, Boston, USA, Oct 2011

Structure and dynamics of multi-relational, socio-economic networks in an online world

Games Technology Workshop at ETH Zürich, Switzerland, Mar 2011

Browser-based MMOGs: Technology and use as research tools

Interdisciplinary Seminar *Modeling Complex Socio-Economic Systems and Crises* at ETH Zürich, Switzerland, Feb 2011

Social Networks in Multiplayer Online Games

Invited talk at ETH Zürich, Switzerland, Feb 2011

Massive Multiplayer Online Games as Socio-economic Labs

IIASA Xevents Workshop, Laxenburg, Austria, Mar 2010

Extreme events in a large-scale, virtual human society

Invited talk at University of Catania, Italy, Oct 2009

Measuring the evolution of socio-economical structure in an online game

Invited lecture at the Department of Education and Human Development, University of Vienna, Austria, Jun 2008

Pardus – Funktion und Aufbau eines Browser-Spiels

ARGESIM Simulation Workshop, Siena, Italy, Sep 2007

Finite Differenzen Verfahren zur numerischen Lawinensimulation

Pardus – Funktion und Aufbau eines Browser-Spiels

Workshop for avalanche dynamics at the Austrian service for Torrent and Avalanche Control, Schwaz, Austria, Oct 2007

Finite Differenzen Verfahren zur numerischen Lawinensimulation

Contributed presentations

IC2S2 2025 conference, Norrköping, Sweden, Jul 2025

Country-wide bicycle network analysis and planning with the human in the loop

IC2S2 2023 conference, Copenhagen, Denmark, Jul 2023

Computational Desire Line Analysis of Cyclists on the Dybbølsbro Intersection in Copenhagen

CSH-ITU workshop Sustainable Mobility: Data, Networks, and Complexity, Vienna, Austria, Apr 2023

The Science of Growing Urban Bicycle Networks

UrbanSys2021 satellite at *CCS 2021*, Lyon, France, Oct 2021

Growing cohesive urban bicycle networks

5th Annual Meeting of the Cycling Research Board, *CRBAM21*, Copenhagen, Denmark, Oct 2021

The geometric limits of growing urban bicycle networks

1st Annual Meeting of the Cycling Research Board, Amsterdam, Netherlands, Nov 2018

Cross-city visualization & quantification of the “arrogance of space” using large-scale transport space data

NetSci 2018 conference, Paris, France, Jun 2018

Structural discontinuities of human interactions in space

Urban Systems and Network Science satellite at *NetSci 2017*, Indianapolis, USA, Jun 2017

Interactive, animated exploration of urban mobility spaces through the online platform “What the Street!?”

CompleNet 2017 conference, Dubrovnik, Croatia, Mar 2017

Shareability networks: Quantifying ride-sharing benefits

IC2S2 2016 conference, Evanston, USA, Jun 2016
 Exploring the anatomy of physics

CompleNet 2016 conference, Dijon, France, Mar 2016
 Quantifying social effects in collaborative work

ICCSS 2015 conference, Helsinki, Finland, Jun 2015
 Understanding effort and success in teams

NetSci 2015 conference, Zaragoza, Spain, Jun 2015
 Quantifying team effort and success

CompleNet 2015 conference, New York City, USA, Mar 2015
 Understanding Team Success

NetSci 2014 conference, Berkeley, USA, Jun 2014
 Higher-order models in human mobility and interactions

Network Frontier Workshop 2013 at Northwestern University, Evanston, USA, Dec 2013
 Taxi-pooling in New York City: A network-based approach to social sharing

Engaging Data 2013 conference at MIT, Cambridge, USA, Nov 2013
 Hubcab – Taxi-sharing in New York City: A network-based approach

ECCS 2013 conference, Barcelona, Spain, Sep 2013
 Human spatial organization and the emergence of urban centers

ECCS 2013 conference, Multiplex Networks 2013, Barcelona, Spain, Sep 2013
 Multiplex networks in social systems

Urban Code conference, Cambridge, USA, Nov 2012
 hubcab – A network-based improved urban taxi service

Ph.D. Defensio at University of Vienna, Austria, Mar 2012
 Statistical physics approaches to large-scale socio-economic networks

ECCS 2011 conference, Vienna, Austria, Sep 2011
 Human mobility on a network

NetSci 2011 conference, Budapest, Hungary, Jun 2011
 Multi-relational Socio-economic Networks in a Large-scale Online Community

Net2011 conference at University Bicocca Milano, Italy, May 2011
 Multi-relational socio-economic networks in a massive multiplayer online game

INSITE Kickoff-Meeting, Venice, Italy, Apr 2011
 The artificial world of the Pardus game: First lessons

7th Vienna Central European Seminar in Particle Physics and Quantum Field Theory, Austria, Nov 2010
 Complex human mobility dynamics on a network

ECCS 2010 conference, Lisbon, Portugal, Sep 2010
 Multi-relational social dynamics in a large-scale online game society
 Trade, Conflict and Sentiments: Multi-relational organization of large-scale social networks

COST workshop *Processes on Networks* at Medical University of Vienna, Austria, Mar 2010
 Establishment of a large-scale “laboratory” for socio-economic behavior

Workshop *Modelling Science* at Rathenau Institute, Amsterdam, Netherlands, Oct 2009
 Measuring the evolution of socio-economical structure in an online game

DPG Spring Meeting, Dresden, Germany, Mar 2009
 Measuring the evolution of socio-economical structure in an online game

Academic activities

Memberships and foundations

Associate member of the *OpenStreetMap Foundation*, since Oct 2024

Member of the *ITU Center for Climate IT*, since Dec 2022

Creator and administrator of the *datasci.social* Mastodon community, *datasci.social*, since Nov 2022

Coordinator of *NEtwoRks, Data, and Society (NERDS)* research group at IT University of Copenhagen, *nerds.itu.dk*, Denmark, Oct 2022 – May 2024

ITU representative of *Det Nationale Videnscenter for Cykelfremme (Danish Centre for Cycling Knowledge)*, since Mar 2022

Co-founder and member of *NEtwoRks, Data, and Society (NERDS)* research group at IT University of Copenhagen, *nerds.itu.dk*, Denmark, since Apr 2019

Editorial service

Guest Editor at *Journal of Physics, Complexity, Urban Mobility and Green Transportation in Sustainable Cities*
Nov 2023 – Jun 2025

Editor at *International Journal of Geo-information*
Aug 2019 – Oct 2023

Editor at *PLOS ONE*
Dec 2017 – Sep 2022

Handling editor at *PLOS ONE* collection *Science of Stories*
Jan 2019 – Jun 2019

Community reviewer at *Frontiers (Social Physics)*
since Jun 2018

Editor at *Complex Systems*
since Jan 2018

Guest Editor at *International Journal of Geo-Information, Human-Centric Data Science for Urban Studies*
Dec 2017 – Apr 2019

Guest Editor at *EPJ Data Science, Individual and Collective Human Mobility: Description, Modelling, Prediction*
May 2017 – Jan 2018

Review service

Journals: Nature, Nature Communications, Nature Sustainability, Nature Human Behaviour, PNAS, Science Advances, Nature Computational Science, Physical Review Letters, Physical Review E, New Journal of Physics, Europhysics Letters, Social Networks, Journal of The Royal Society Interface, Royal Society Open Science, Scientific Data, PLOS ONE, Journal of Statistical Mechanics, EPJ Data Science, Applied Network Science, Condensed Matter Physics, Frontiers, Transportation, Environment and Planning B, Games, ACM Transactions on Knowledge Discovery from Data, IEEE Transactions on Network Science and Engineering, IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Signal and Information Processing over Networks, IEEE Transactions on Intelligent Transportation Systems, GeoInformatica, International Journal of Sustainable Transportation, International Journal of Geographical Information Science, Sustainability, Economics Bulletin

Publishers: Cambridge University Press, Chapman & Hall/CRC

Funding agencies and institutions: German Research Foundation (DFG), Netherlands Organisation for Scientific Research (NWO), Forum neue Medien Austria, World Bank

Academic visits

Complexity Science Hub Vienna, Austria, Apr 2023
 ISI Foundation, Turin, Italy, May – Jun 2022
 ISI Foundation, Turin, Italy, Oct 2021
 ISI Foundation, Turin, Italy, Jun 2019
 ISI Foundation, Turin, Italy, Jun – Jul 2018
 Northwestern Institute on Complex Systems (NICO), Northwestern University, Evanston, USA, Jul 2017
 Center for Complex Network Research, Northeastern University, Boston, USA, Jun – Jul 2017
 Center for Network Science, Central European University, Budapest, Hungary, Mar – Apr 2016
 Santa Fe Institute, Santa Fe, USA, Oct 2011
 Laboratory for Complex Systems, University of Catania, Italy, May – Jun 2011
 Chair of Sociology, in particular of Modeling and Simulation, ETH Zürich, Switzerland, Feb – Mar 2011
 Laboratory for Complex Systems, University of Catania, Italy, Sep 2010
 COST scientific mission at the Institute of Mathematical Sciences, Imperial College London, UK, Aug – Sep 2010

Advanced training

Graph Exploitation Symposium at MIT Endicott House, USA, Aug 2014
Workshop on Information and Decision in Social Networks at MIT Media Lab, USA, Nov 2012
Workshop Computational Social Science at Harvard University, USA, May 2012
SFI Complex Systems Summer School 2010 at the Santa Fe Institute, USA, Jun 2010
 Summer school *Complex Systems and Social Simulation* at the Central European University, Budapest, Hungary, Jul 2009
 Summer school *Steps in Evolution* at the Jacobs University Bremen, Germany, Jun 2009

Organization and committees

Program Committee member of *NetSciX* in Auckland, New Zealand, Feb 2026
 Social Media Chair of *ICSSI 2025* in Copenhagen, Denmark, Jun 2025
 Program Committee member of *CompleNet 2025* in Fortaleza, Brazil, Apr 2025
 Program Committee member of *IC2S2* in Philadelphia, USA, Jul 2024
 Program Committee member of *NetSci 2024* in Québec City, Canada, Jun 2024
 Program Committee member of *CompleNet 2024* in Exeter, UK, Apr 2024
 Program Committee member of *NetSciX* in Venice Italy, Jan 2024
 Program Committee member of *Complex Networks 2023* in Nice, France, Nov 2023
 Program Committee member of *Equitable Accessibility and Sustainable Mobility Workshop 2023 at GIScience 2023* in Leeds, UK, Sep 2023
 Program Committee member of *IC2S2* in Copenhagen, Denmark, Jul 2023
 Program Committee member of *CompleNet 2023* in Aveiro, Portugal, Apr 2023
 Main organizer of *CSH-ITU workshop Sustainable Mobility: Data, Networks, and Complexity* in Vienna, Austria, Apr 2023
 Program Committee member of *NetSciX 2023* in Buenos Aires, Brazil, Feb 2023

Program Committee member of *CityVis 2022* in Potsdam, Germany, Nov 2022

Program Committee member of the CCS 2022 satellite *ComplexDataBlocks* in Palma di Mallorca, Spain, Oct 2022

Co-chair dataset track of *ICWSM-22* in Atlanta, USA, Jun 2022

Program Committee member of *Complex Networks 2021* in Madrid, Spain, Nov 2021

Program Committee member of *MIMODE 2021* in Lyon, France, Oct 2021

Program Committee member of *CCS 2021* in Lyon, France, Oct 2021

Program Committee member of *IC2S2 2021* in Zurich, Switzerland, Jul 2021

Program Committee member of *CompleNet 2021* online, May 2021

Program Committee member of *SocInfo20* in Pisa, Italy, Oct 2020

Program Committee member of *ICCS 2020* in Nashua, USA, Jul 2020

Reviewer of conference Papers of *IC2S2 2020* in Cambridge, USA, Jul 2020

Program Committee member of *NetSci 2020* in Rome, Italy, Jul 2020

Program Committee member of *CompleNet 2020* in Exeter, UK, Mar 2020

Program Committee member of *NetSci-X 2020* in Tokyo, Japan, Jan 2020

Program Committee member of *Future Cities Challenge 2019* in Oxford, UK, Jul 2019

Program Committee member of *CompleNet 2019* in Tarragona, Spain, Mar 2019

Program Committee member of *Complex Networks 2018* in Cambridge, UK, Dec 2018

Program Committee member of *CCS 2018* in Thessaloniki, Greece, Sep 2018

Program Committee member of *ICCS 2018* in Cambridge, USA, Jul 2018

Program Committee member of *CompleNet 2018* in Boston, USA, Mar 2018

Program Committee member of *Complex Networks 2017* in Lyon, France, Nov 2017

Program Committee member of *CCS 2017* in Cancun, Mexico, Sep 2017

Program Committee member of *ENIC'17* in Duisburg, Germany, Jul 2017

Program Committee member of *IC2S2 2017* in Cologne, Germany, Jul 2017

Program Committee member of the *ICWSM-17 11th International conference on Web and Social Media* in Montreal, Canada, May 2017

Program Committee member of *COMPLEXIS 2017* in Porto, Portugal, Apr 2017

Program Committee member of the Social Networks and Graph Analysis Track of the *WWW2017 26th International World Wide Web conference* in Perth, Australia, Apr 2017

Program Committee member of *CompleNet 2017* in Dubrovnik, Croatia, Mar 2017

Program Committee member of *Complex Networks 2016* in Milan, Italy, Dec 2016

Program Committee member of the *CCS 2016 Open Science for an Open Society* satellite in Amsterdam, Netherlands, Sep 2016

Program Committee member of the *ICWSM-16 10th International conference on Web and Social Media* in Cologne, Germany, May 2016

Program Committee member of the *ICDM2016 Workshop on Data mining for the Analysis of Performance and Success (DAPS 2016)* in Cologne, Germany, May 2016

Program Committee member of the *ICWSM-16 10th International conference on Web and Social Media* in Cologne, Germany, May 2016

Program Committee member of *COMPLEXIS 2016* in Rome, Italy, Apr 2016

Program Committee member of the Social Networks and Graph Analysis Track of the WWW2016 25th International World Wide Web conference in Montreal, Canada, Apr 2016

Program Committee member of the CompleNet 2016 Workshop on Complex Networks in Dijon, France, Mar 2016

Program Committee member of the NetSciX 2016 conference on Network Science in Wroclaw, Poland, Jan 2016

Program Committee member of the ASONAM 2015 DyNo Workshop on Dynamics in Networks in Paris, France, Aug 2015

Program Committee member of the ASONAM 2015 Industry-Track in Paris, France, Aug 2015

Program Committee member of the IEEE BigData Congress 2015 in New York City, USA, Jun 2015

Main organizer and Program Committee member of the NetSci 2015 Satellite NetSci Backstage in Zaragoza, Spain, Jun 2015

Program Committee member of the ICWSM-15 9th International conference on Web and Social Media in Oxford, UK, May 2015

Program Committee member of the CompleNet 2015 Workshop on Complex Networks in New York City, USA, Mar 2015

Program Committee member of the NetSciX 2015 conference on Network Science in Rio de Janeiro, Brasil, Jan 2015

Program Committee member of the SocInfo 2014 track EGG 2014 Exploration on Game and Gamers Workshop in Barcelona, Spain, Nov 2014

Program Committee member of the SDM 2014 Workshop on Mining Networks and Graphs: A Big Data Analytic Challenge in Philadelphia, USA, Apr 2014

Organizer at the conference Engaging Data 2013 at MIT, Cambridge, USA, Nov 2013

Program Committee member of the SDM'14 workshop Mining Networks and Graphs: A Big Data Analytics Challenge Philadelphia, USA, Apr 2014

Program Committee member of the 3PGCIC 2013 Social Network Applications track at University of Technology of Compiegne, France, Oct 2013

Program Committee member of the ECCS 2013 Multiplex Networks 2013 satellite in Barcelona, Spain, Sep 2013

Program Committee member of the BRICS-CCI & CBIC 2013 Complex Systems Symposium in Recife, Brazil, Sep 2013

Reviewer of conference Papers of the CUPUM 2013 13th International conference on Computers in Urban Planning and Urban Management in Utrecht, Netherlands, Jul 2013

Organizer at the conference Urban Code at MIT, Cambridge, USA, Nov 2012

Program Committee member of the Symposium on Social Networks and Social Contagion at the Westin Arlington Gateway, USA, Nov 2012

Main organizer and Program Committee member of the ECCS'11 Satellite XNet – Complexity & Networks at the Medical University of Vienna, Austria, Jan – Sep 2011

Main organizer and Program Committee member of the European conference on Complex Systems 2011 (ECCS'11) at the Medical University of Vienna, Austria, Oct 2010 – Sep 2011

Main organizer of COST MP0801 workshop Processes on Networks at the Medical University of Vienna, Austria, Mar 2010

Teaching, supervision, and censor work

Courses

In all courses I was course manager (except *) and main developer of course materials.

Introduction to Data Science and Programming (15 ECTS credits), IT University of Copenhagen, Fall 2019 (50%*), 2020 (65%), 2021 (65%), 2022 (65%), 2023 (70%), 2025 (60%)

Geospatial Data Science (7.5 ECTS credits), IT University of Copenhagen, Spring 2022 (75%), 2024 (100%), 2025 (20%*), 2026 (75%)

First Year Project (15 ECTS credits), IT University of Copenhagen, Spring 2021 (30%)

Technical Communication (7.5 ECTS credits), IT University of Copenhagen, Fall 2019

Data and Network Visualization (4 ECTS credits), Central European University, Fall 2018

Urban Networks and Human Mobility (4 ECTS credits), Central European University, Fall 2018

Statistical Methods in Network Science and Data Analysis (8 ECTS credits), Central European University, Winter 2017/2018

Seminar chair at seminar *Understanding Big Data*, European Forum Alpbach 2016, Aug 2016

Labs

StudyLab 1. semester BDS, IT University of Copenhagen, Fall 2021, 2022, 2023, 2025

Single classes

Class at *IT and Green Transitions*, ITU Copenhagen, Denmark, Sep 2022, Oct 2023, Sep 2025

Guest class at *Reflections on Data Science*, ITU Copenhagen, Denmark, Apr 2020

Guest class at *SG2 Analytisches Gestaltungsprojekt*, HfG Schwäbisch Gmünd, Germany (online), Apr 2019

Guest class at *Data and Network Visualization*, Central European University, Budapest, Hungary, Nov 2017

Guest class at *JustData - University Wide Course*, Central European University, Budapest, Hungary, Nov 2017

Supervision

Supervisor of PhD student Clément Sebastiao at ITU Copenhagen, since 2024

Supervisor of PhD student Ane Rahbek Vierø at ITU Copenhagen, 2022–2025

Supervisor of PhD student Anastassia Vybornova at ITU Copenhagen, 2021–2024

Supervisor of Postdoc Bojan Kostic at ITU Copenhagen, 2021–2022

Co-supervisor of Postdoc Tiago Cunha at ITU Copenhagen, 2020–2023

Supervisor of PhD student Luis Guillermo Natera Orozco at CEU, 2018–2021

Supervisor of MSc student Julius Tind Westmann at ITU Copenhagen, 2025

Supervisor of MSc student Ida Maria Zachariassen at ITU Copenhagen, 2025

Supervisor of MSc student Emil Bak-Møller at ITU Copenhagen, 2023

Co-supervisor of BSc student Gareth Edward Thomas at ITU Copenhagen, 2024

Co-supervisor of MSc student Frederik Peter Høngaard at ITU Copenhagen, 2023–2024

Co-supervisor of MSc students Julius Thomas Markus Roder and Sebastian Rohr Watt at ITU Copenhagen, 2023–2024

Supervisor of MSc student Emil Bak-Møller at ITU Copenhagen, 2023

Supervisor of MSc student Christian Hedegaard Pliess Larsen at ITU Copenhagen, 2023
 Supervisor of MSc students Anita Justyna Zielińska and Edi Begovic at ITU Copenhagen, 2023
 Supervisor of MSc students Jan Leonard Schelhaas and Peter Gregory Mehler at ITU Copenhagen, 2023
 Co-supervisor of MSc student Carlson Moses Büth at ITU Copenhagen, 2022–2023
 Co-supervisor of MSc student Henrik Wolf at ITU Copenhagen, since 2022–2023
 Co-supervisor of Lagrange scholar (Post-MSc level) Pietro Folco at ISI Foundation, 2021–2022
 Co-supervisor of MSc student Anastassia Vybornova at ITU Copenhagen, 2021
 Supervisor of MSc students Cecilia Laura Kolding Andersen and Morten Lynghede at ITU Copenhagen, 2021
 Supervisor of BSc students Edi Begovic and Høgni Ziska Maree Jacobsen at ITU Copenhagen, 2021
 Supervisor of Lagrange scholar (Post-MSc level) Marina Klanjčić at ISI Foundation, 2019–2021
 Supervisor of MSc student Albert-Hose Llebaria Holda at ITU Copenhagen, 2020
 Supervisor of BSc student Martin Bedsted Villandsen at ITU Copenhagen, 2020
 Co-supervisor of PhD students, MSc students, interns, at Medical University Vienna and MIT

Censor work

Examiner for the computer science study programs in Denmark, since April 2022
 Examiner for the linguistic and cognitive study programs in Denmark, since June 2021
 PhD defense reviewer for Christoph Steinacker at TU Dresden, Germany, Jan 2026
 PhD defense examiner for Silvia de Sojo Caso at Technical University of Denmark, Denmark, Jan 2026
 PhD defense examiner for Louis Boucherie at Technical University of Denmark, Denmark, Feb 2025
 PhD defense examiner for Mateo Neira at University College London, UK, Mar 2024
 PhD defense reviewer at University of Calabria, Italy, Jan 2024
 PhD defense examiner for Frank Schlosser at Humboldt University, Berlin, Germany, Apr 2023
 PhD defense examiner for Giulia Reggiani at TU Delft, Netherlands, May 2022
 PhD defense examiner for Kristoffer Lind Glavind at University of Copenhagen, Denmark, Oct 2021
 PhD defense reviewer at Scuola Normale Superiore di Pisa, Italy, Jul 2020
 PhD defense reviewer at Universitat de les Illes Balears, Palma, Spain, Jul 2019
 PhD defense reviewer at Aalto University, Helsinki, Finland, Aug 2018
 PhD defense examiner for Ádám Szántó-Várnagy at Eötvös Loránd University, Budapest, Hungary, Mar 2017

Open teaching materials

Geospatial Data Science, github.com/mszell/geospatialdatascience
 ECTS Credits: 7.5. This course provides an introduction into core concepts and applications of data science based approaches to geospatial data analysis.
Geospatial Data Science Tutorial, github.com/NERDSITU/gdstutorial
 This 3h tutorial is a condensed version of the course above, held at IC2S2'23.
First Year Project, github.com/mszell/fyp2021
 ECTS Credits: 3.75. This course aims to familiarize students with the pipeline for Data Science projects.
Introduction to Data Science and Programming, github.com/mszell/introdatasci

ECTS Credits: 15.0. This course is an introduction to programming, data science and related foundations.

In the media

My research and projects have been featured in, among others:

The New York Times, Le Monde, Scientific American, MIT Technology Review, MIT Frontpage Spotlight, MIT News, Nature News, Science News, National Geographic, Frankfurter Allgemeine Zeitung, The Guardian, Fast Company, The Huffington Post, Der Spiegel, Forbes, Newsweek, NBC News, The Atlantic, Citylab, Bild der Wissenschaft, Fortune, Ingeniøren / Mobilitytech, Yahoo! Finance, New York Magazine, Salon, Physorg, IEEE Spectrum, Quattroruote, Il sole 24 ore, La Stampa, Science Daily, Neue Zürcher Zeitung, 20 Minuten, Público, Austrian National Radio Ö1, Austrian National Radio FM4, ORF Science, Der Standard, Die Presse, Wiener Zeitung, Salzburger Nachrichten, OÖ Nachrichten, Kleine Zeitung, Verdens Bedste Nyheder, Kossuth Rádió, Origo, Streetsblog USA, Deutschlandfunk Nova

Policy impact

My research has been cited by:

OECD/ITF, Towards the Light: Effective Light Mobility Policies in Cities, 2023
European Commission, New perspectives on territorial disparities, 2022
WHO, Walking and cycling: latest evidence to support policy-making and practice, 2022
World Bank, Mobility and Resilience: A Global Assessment of Flood Impacts on Road Transportation Networks, 2022
World Bank, Adapting Mobility-as-a-Service for Developing Cities: A Context-Sensitive Approach, 2021
OECD/ITF, Ready for Take-off? Integrating Drones into the Transport System, 2021
World Bank, Big Data in Transportation: An Economics Perspective, 2020

Awards and exhibitions

City Vis 2022 shortlisted in Research for *GrowBike.Net*, Nov 2022
Research Environment of the Year 2022 for NERDS, Copenhagen, June 2022
Permanent exhibition of *What the Street!?* in Futurium in Berlin, Germany, from Sep 2019
City Vis 2018 award in Art & Advocacy for *What the Street!?*, and exhibition in Berlin, Germany, Oct 2018

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