

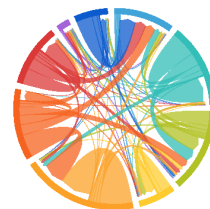
Frank van der Wouden, PhD

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Academic Positions

University of Hong Kong

(2019 - present)

Assistant Professor (Tenure Track) of Economic Geography & Innovation Studies

Northwestern Institute on Complex Systems

Northwestern University (2018 - present)

Research Affiliate

Kellogg School of Management

Northwestern University (2018 - 2019)

Management & Organizations Department

Postdoctoral Research Scholar

Research Interests

Innovation

Technological Change

Spatial Economics

Computational Social Science

Collaboration

Economic Geography

Social Network Analysis

Geography of Innovation

Machine Learning

Inventor Networks

Complex Systems

Regional Development

Education

University of California, Los Angeles - Ph.D. in Economic Geography (2013-2018)

Dissertation: "Exploring the Changing Structures of Inventor Collaboration in U.S. cities between 1836 and 1975"

Committee: David Rigby, Michael Storper, Eric Sheppard and Jacob Foster

Utrecht University - Research M.Sc. in Economic Geography (2012)

Thesis: "The role of Technological Relatedness in Economic Variety on Knowledge Production in U.S. Cities between 1975 - 2005"

Committee: Ron Boschma, David Rigby, Frank van Oort

University of California, Berkeley - Haas School of Business

Visiting student – Organizational Behavior (2010)

Utrecht University - B.Sc. in Human Geography and Urban Planning (2010)

Thesis: "U.S. Companies in the polder: the effect of U.S. KIBS on spatial concentration and innovation in The Netherlands"

Publications & Working papers

Peer-reviewed Papers:

- Van der Wouden, F.** & D.L. Rigby (2020), "*Inventor Mobility and Productivity: A Long-Run Perspective*", *Industry and Innovation* (forthcoming)
- Van der Wouden, F.** (2020), "A History of Collaboration in U.S. Invention: Changing Patterns of Co-invention, Complexity and Geography", *Industrial and Corporate Change* 29 (3)
- Painter, D. & **F. van der Wouden**, M.D. Laubichler, H. Youn (2020), "Quantifying simultaneous innovations in evolutionary medicine", *Theory in Biosciences* 139(4)
- Van der Wouden, F.** & D.L. Rigby (2019), "Co-inventor Networks and Knowledge Production in Specialized and Diversified Cities", *Papers in Regional Science* 98 (4)
- Van Niftrik*, C. & **F. Van der Wouden*** et al. (2019), "Machine learning algorithm identifies patients at high risk for early complications after intracranial tumor surgery: registry based cohort study", *Neurosurgery* 85 (4) *Co-first authors

Under Review:

- Van der Wouden, F.** & G. Carnabuci, "Finding the 'adjacent possible': where recombinant inventors are most likely to occur and who is most likely to discover them."
- Van der Wouden, F.** & H. Youn, "Impact of geographical distance on acquiring know-how through scientific collaboration"
- Van der Wouden, F.** "Are Chinese Cities Becoming Smarter in Terms of Knowledge and Technology Production?"

Working Papers:

- Cortinovis*, N. & **F. Van der Wouden***, Giuseppe Criaco, "Collaboration and Learning in a Creative Industry" (preparation for *Organization Science*) *Co-first authors
- Esposito, C. & **F. van der Wouden**, "Learning, Fast and Slow: The Returns to Experience and Collaboration for High-Impact Innovation in the United States between 1836 and 1975" (preparation for *Management Science*)
- Sebök, M. & C.H.B Van Niftrik, **F. van der Wouden**, "*Using BOLD-CVR to identify Stroke*" (preparation for *Jama Neurology of Circulation*)

Policy Recommendations

- van Oort, F. & T. de Graaff, H. Koster, H. Olden & **F. van der Wouden** (2013), "The city as the Engine of Growth: Theoretical exploration, empirical analysis and policy recommendations for the Randstad" (Policy recommendations for Ministry of Internal Affairs of The Netherlands)

Teaching Experience

Assistant Professor (2019-present) at University of Hong Kong
Economic Geography
Economic and social development in an urbanizing world
Networks and Geography: Introduction to Social Network Analysis

Lecturer (2018-2019) at Kellogg School of Management, Northwestern University
Network Analysis & Data Science with Hyejin Youn

Teaching Fellow (2013-2018) at University of California, Los Angeles
Global Economy with prof. John Agnew (x2)
Globalization with prof. Eric Sheppard
Regional development with prof. David Rigby (x3)
Economic Geography with prof. David Rigby
People & Earth Ecosystems with prof. Kyle Cavanaugh

Junior Assistant Professor (September 2012 - September 2013) - Utrecht University
Lecturer: (1) Spatial Economics
(2) Firm and Region
(3) Economic Geography
Supervision Bachelor Theses: 15+ students in Economics & GeoSciences faculties

Data

2018 *Co-inventor collaboration for USPTO patents between 1836-1975:*

A unique inventor-patent database that identifies all (co-)inventors and their geographical location(s) on more than 3 million USPTO patents between 1836 and 1975, connecting invention of technologies to geographical locations and building networks of collaboration.

Awards and Grants

2020	Hui Oi-Chow Trust Fund		USD 8,800
2020	Early Career Scheme Grant (PI)	University Grants Committee	USD 53,333
2020	Seed Funding Basic Research (PI)	University of Hong Kong	USD 18,700
2020	Best Research Publication Price (Co-PI)	Forschungspreis KNZ	CHF 2,000
2019	Travel Bursary	Young Scholars Initiative	USD 200
2018	Travel Bursary	Institute for New Economic Thinking	USD 300
2018	University Fellowship	UCLA Geography Department	USD 500
2017	Graduate Student Grant	UCLA Center for Economic History	USD 3,000
2017	Dissertation Year Fellowship	UCLA Graduate Division	USD 36,325
2017	Outstanding Teaching Certificate	UCLA Geography Department	
2017	Travel Bursary	Regional Studies Association	GBP 215
2016	Graduate Student Grant	UCLA Center for Economic History	USD 5,000
2016	Travel Bursary	Young Economic Geographers Network	CHF 430
2016	Travel Bursary	AAG Economic Geography Specialty Group	USD 250
2016	Travel Bursary	Summer Institute for Economic Geography	USD 1,100
2015	Haynes Lindley Doctoral Dissertation Fellowship (PI)	Haynes Foundation	USD 20,000
2015	Graduate Summer Research Mentorship Award	UCLA Graduate Division	USD 6,000
2013	PhD funding offer	UCLA Graduate Division	USD 170,000
2013	University Fellowship	UCLA Graduate Division	USD 20,000

2013	Bernhard Fellow	Prins Bernhard Cultuurfonds	EU 5,000
2013	Fundatie van Renswoude Fellow	Fundatie van de Vrijvrouwe van Renswoude	EU 6,000
2013	Marc de Smidt Prize	Best Master Thesis - Faculty GeoSciences	EU 500
2013	Marc de Smidt Prize	Best Presentation - Faculty GeoSciences	

Invited Talks

2019	Seminar	Innovation, Collaboration and Geography	Hong Kong University
2019	Seminar	Inventor Mobility and Productivity	Utrecht University
2019	Workshop	Machine Learning using Individual-level data	Zurich
2018	Seminar	“Historical US Inventor Collaboration”	Utrecht University
2017	Workshop	Relatedness & Regional Development	Harvard Kennedy School
2017	Guest Lecture	“Humans, economics & environment”	UCLA
2016	Key note	The Captains of Industry Conference	The Hague
2016	Guest Lecture	“Evolutionary Economics - new insights”	Utrecht University
2015	Guest Lecture	“Multinational Corporations & Development”	UCLA
2015	Workshop	3rd Geography of Networks	Utrecht University

Selected Presentations

2020	Article presentation	Complex System Society	Zurich (online)
2020	Article presentation	European Regional Science Association	Web Conference
2019	Article presentation	IC2S2 (Computational Social Science)	Amsterdam
2019	Article presentation	AAG Annual Meeting	Washington
2019	Article presentation	Urban and Regional Economic Development	USC
2018	Article presentation	Complexity and New Economic Thinking	MIT
2018	Article presentation	AAG Annual Meeting	New Orleans
2018	Article presentation	Geography of Innovation	Barcelona
2017	Article presentation	DRUID	New York City
2017	Article presentation	Young Economic Geographers Network	Hannover
2017	Article presentation	Regional Studies Association Conference	Dublin
2017	Article presentation	AAG Annual Meeting	Boston
2016	Article presentation	Young Economic Geographers Network	Bern
2016	Workshop	Summer Institute in Economic Geography	Lexington
2016	Article presentation	AAG Annual Meeting	San Francisco
2016	Article presentation	Geography of Innovation	Toulouse
2015	Article presentation	4th Global Conference on Economic Geography	Oxford
2015	Article presentation	AAG Annual Meeting	Chicago
2014	Article presentation	Geography of Innovation	Utrecht
2013	Article presentation	AAG Annual Meeting	New York City

Supervision

2023	Liam Reeves	Thesis supervisor	University of Hong Kong
2021	Ren Cong	Internal Committee Member	University of Hong Kong
2020	Lisha He (Now: Lingnan University)	Internal Committee Member	University of Hong Kong

Other

Volunteering	<i>Representative</i> at Social Science Council UCLA				(2014-2015, 12 months part-time)
	<i>Treasurer</i> at Graduate Geography Students Association				(2014-2015, 12 months part-time)
	<i>Introduction Committee</i> at Utrechtsch Studenten Corps				(2009, 6 months full-time)
	<i>AIESEC Ambassador</i> for AIESEC The Netherlands				(2008, 3 months full-time)
	<i>Football coach</i> for youth between 10-12 years				(2004 - 2006, 6+ hours a week)
Reviewer	Research Policy		Academy of Management		Economic Geography
	Journal of Economic Geography		Network Science		Industry and Innovation
	PLOS One		Papers in Regional Science		Scientometrics
Affiliations	American Association of Geographers				
	Regional Studies Association				
	Economic History Association				
	California Center for Population Research				
Languages	Dutch (Native)	German(Good)		R	JavaScript
	English(Fluent)	French (Intermediate)		C	Python
Software	R	Python	H2O.ai	Intersystems Cache	
	ArcGIS	Gephi	Adobe Photoshop	Adobe InDesign	
Hobbies	Trail-running, ultra-marathon, camping, football and skiing				

References

David Rigby

Professor of Economic Geography at UCLA
Professor of Statistics at UCLA

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Ron Boschma

Professor of Regional Economics at Utrecht University
Professor of Innovation Studies at Stavanger University

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Michael Storper

Professor of Urban Planning at UCLA
Professor of Economic Geography at LSE

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Ingrid and Manfred Gentz Chair in Business & Society
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