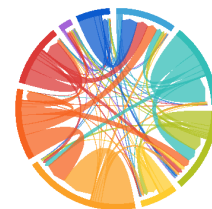


Frank van der Wouden, PhD

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Academic Positions

University of Hong Kong - Department of Geography (2019 - present)
Assistant Professor (Tenure Track) in 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

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”

Teaching Experience

Assistant Professor at University of Hong Kong
- GEOG2123: Economic Geography
- GEOG1012: Economic and social development in an urbanizing world
- GEOG3426: Networks and Geography: Introduction to Social Network Analysis

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

Teaching Fellow (2013-2018) at University of California, Los Angeles
Globalization with prof. dr. Eric Sheppard
Regional development with prof. dr. David Rigby (x3)
Economic Geography with prof. dr. David Rigby
People & Earth Ecosystems with prof. dr. 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

Research Interests

Innovation	Economic Geography	Regional Development
Geography of Innovation	Collaboration	Inventor Networks
Spatial Economics	Social Network Analysis	Complex Systems
Computational Social Science	Machine Learning	Evolutionary Economics

Publications & Working papers

Peer-reviewed Papers

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)

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 & 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)

Under Review

Van der Wouden, F. & D. Rigby “*Inventor Mobility and Productivity: A Long-Run Perspective*”

Van der Wouden, F. & G. Carnabuci, H. Youn “*Adjacent Possible: Why some knowledge combinations are more likely to drive innovation than others*”

Van der Wouden, F. & H. Youn “*Impact of geographical distance on acquiring know-how through scientific collaboration*”

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)

Working Papers

Van der Wouden, F. & Rigby, D., C. Esposito and C. Rosler “*The Geography of Novel Knowledge*”

Van der Wouden, F. & H. Youn “*The Role of Females in Collaboration, Creativity and Innovation*”

Cortinovis, N. & F. van der Wouden “*Collaboration and Learning in a Creative Industry*”

Painter, D & F. van der Wouden, M. Laubichler, H. Youn “*Simultaneous Innovation in Medicine*”

Van der Wouden, F. & C.H.B. van Niftrik “*Outcome Prediction Modeling in Aneurysmal Subarachnoid Hemorrhage using Machine Learning Techniques*”

Van der Wouden, F.

“Using Machine Learning Techniques to Mine and Process Data in Social Sciences”

Van der Wouden, F.

“What Mechanisms Structure Tie-Formation among U.S. Inventors: Empirical Evidence from U.S. Patents between 1836-1975”

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	Seed Funding Basic Research (PI)	- University of Hong Kong	(144,616 HKD)
2020	Best Research Publication Price (Co-PI)	- Forschungspreis KNZ	(2,000 CHF)
2019	Travel Bursary	- Young Scholars Initiative	(\$200)
2018	Travel Bursary	- Institute for New Economic Thinking	(\$300)
2018	University Fellowship	- UCLA Geography Department	(\$500)
2017	Graduate Student Grant	- UCLA Center for Economic History	(\$3,000)
2017	Dissertation Year Fellowship	- UCLA Graduate Division	(\$36,325)
2017	Outstanding Teaching Certificate	- UCLA Geography Department	
2017	Travel Bursary	- Regional Studies Association	(£215)
2016	Graduate Student Grant	- UCLA Center for Economic History	(\$5,000)
2016	Travel Bursary	- Young Economic Geographers Network	(430 CHF)
2016	Travel Bursary	- AAG Economic Geography Specialty Group	(\$250)
2016	Travel Bursary	- Summer Institute for Economic Geography	(\$1,100)
2015	Haynes Lindley Doctoral Dissertation Fellowship (PI)	- Haynes Foundation	(\$20,000)
2015	Graduate Summer Research Mentorship Award	- UCLA Graduate Division	(\$6,000)
2013	PhD funding offer	- UCLA Graduate Division	(\$170,000)
2013	University Fellowship	- UCLA Graduate Division	(\$20,000)
2013	Bernhard Fellow	- Prins Bernhard Cultuurfonds	(€5,000)
2013	Fundatie van Renswoude Fellow	- Fundatie van de Vrijvrouwe van Renswoude	(€6,000)
2013	Marc de Smidt Prize	- Best Master Thesis - Faculty GeoSciences	(€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

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

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>Soccer coach</i> for youth between 10-12 years			(2004 - 2006, 6+ hours a week)		
Reviewer	Research Policy		Academy of Management			
	Journal of Economic Geography		Scientometrics			
	PLOS One		Papers in Regional Science			
	Industry and Innovation					
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		
	UciNet	STATA	MaxQDA	HLM		
Hobbies	Football, (trail) running and skiing					

References

David Rigby

Professor of Economic Geography at UCLA
Professor of Statistics at UCLA
✉ rigby@geog.ucla.edu
☎ +1-310-825-7334

Michael Storper

Professor of Urban Planning at UCLA
Professor of Economic Geography at LSE
✉ storper@ucla.edu
☎ +1-310-825-2718

Ron Boschma

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