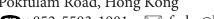
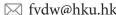
Frank van der Wouden, PhD

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Academic Positions

University of Hong Kong - Department of Geography (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

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 (2019-present) University of Hong Kong at

Economic Geography

Economic and social development in an urbanizing world

Networks and Geography: Introduction to Social Network Analysis

Lecturer (2018-2019) Kellogg School of Management, Northwestern University

Network Analysis & Data Science with Hyejin Youn

Teaching Fellow (2013-2018) University of California, Los Angeles

Globalization with prof. Eric Sheppard with prof. David Rigby (x3) Regional development Economic Geography with prof. David Rigby People & Earth Ecosystems with prof. Kyle Cavanaugh

Global Economy with prof. John Agnew (x2)

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

InnovationCollaborationRegional DevelopmentTechnological ChangeEconomic GeographyInventor NetworksSpatial EconomicsSocial Network AnalysisComplex Systems

Computational Social Science Machine Learning Geography of Innovation

Publications & Working papers

Peer-reviewed Papers

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 (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)

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. & 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. & G. Carnabuci, "Recombinant invention and the "adjacent possible": Evidence from nearly 200 years of US patent data"

Van der Wouden, F. "Are Chinese Cities Becoming Smarter in Terms of Knowledge and Technology Production?"

Cortinovis, N. & F. Van der Wouden, "Collaboration and Learning in a Creative Industry"

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 (* corresponding author) Sebök, M. & C.H.B Van Niftrik, **F. van der Wouden**, "Using BOLD-CVR to identify Stroke"

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

| 11Waras and Grants | | |
|--|--|-------------|
| 2021 Research Grant (PI) | Hui Oi-Chow Trust Fund | USD 8,889 |
| 2020 Early Career Scheme Grant (PI) | Research Grants Council | 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 Grou | p USD 250 |
| 2016 Travel Bursary | Summer Institute for Economic Geography | y USD 1,100 |
| 2015 Haynes Lindley Dissertation Fellowship (PI) | Haynes Foundation | USD 20,000 |
| 2015 Graduate Summer Research Mentorship Awar | d 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 Renswoud | de 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 | * | 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 | 3/3 |
| | | | | |

| 2017 | Article presentation | Young Economic Geographers Network | Hannover |
|------|----------------------|---|---------------|
| 2017 | Article presentation | Regional Studies Association Conferece | 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 | Representative at Social Science Counsil UCLA | (2014-2015, 12 months part-time) |
|--------------|--|----------------------------------|
| | Treasurer at Graduate Geography Students Association | (2014-2015, 12 months part-time) |
| | Introduction Committee at Utrechtsch Studenten Corps | (2009, 6 months full-time) |
| | AIESEC Ambassador for AIESEC The Netherlands | (2008, 3 months full-time) |
| | Football coach 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 |

PLOS One Papers in Regional Science
Scientometrics Journal of Transport Geography

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, football and skiing

References

David Rigby

Professor of Economic Geography at UCLA Professor of Statistics at UCLA

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Michael Storper

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

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+1-310-825-2718

Ron Boschma

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

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