

FRANK VAN DER WOUDE, PHD

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University of Hong Kong

Innovation scholar interested in the strategic dimensions of managing technological change, knowledge creation, collaboration and economic development, using quantitative methods and tools from a diverse set of academic fields.

ACADEMIC POSITIONS

The University of Hong Kong Assistant Professor (Tenure Track) Innovation Studies & Economic Geography	2019 – present
Northwestern University Northwestern Institute on Complex Systems Research Affiliate	2018 – present
Kellogg School of Management – Northwestern University Management & Organizations Department Postdoctoral Research Scholar	2018 – 2019

EDUCATION

PhD University of California, Los Angeles – Economic Geography	2013 - 2018
Dissertation: “Exploring the Changing Structure of Inventor Collaboration in U.S. cities between 1836 and 1975” Committee: David Rigby (chair), Michael Storper, Eric Sheppard and Jacob Foster	
MSc Utrecht University – Economic Geography (Research MSc)	2010-2012
Thesis: “The Role of Technological Relatedness in Economic Variety on Knowledge Production in U.S. cities between 1975 – 2005” Committee: Ron Boschma (chair), David Rigby and Frank van Oort Exchange: University of California, Los Angeles	
BSc Utrecht University – Economic Geography & Urban Planning	2006 - 2010
Thesis: “U.S. Companies in the polder: the effect of U.S. KIBS on spatial concentration and innovation in The Netherlands” Exchange: University of California, Berkeley – Haas School of Business	

RESEARCH INTERESTS

Innovation	Collaboration	Technological Change
Strategic Management	Economic Geography	Inventor Networks
Spatial Economics	Machine learning	Social Network Analysis
Computational Social Science	Geography of Innovation	Regional Development

PUBLICATIONS

Journal Publications

Van der Wouden, F. (2021), "Are Chinese cities getting smarter in terms of knowledge and technology they produce?", *World Development* 150

Van der Wouden, F. & D.L. Rigby (2020), "Inventor Mobility and Productivity: A Long-Run Perspective", *Industry and Innovation* 28 (6)

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 author

Journal Papers in Review

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

Working Papers

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."

Esposito, C. & **F. van der Wouden**, “Learning Amid Technological Disruption: Evidence from U.S. Inventors, 1836-1999”

Cortinovis*, N. & **F. van der Wouden***, G. Criaco, “Collaboration and Learning in a Creative Industry” *Co-first authors

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

University of Hong Kong 2019 – present

Assistant Professor

- Economic Geography (80-100 students)
- Economic and social development in an urbanizing world (250 – 300 students)
- Networks and Geography: Introduction to Social Network Analysis (15 – 30 students)

Doctoral Students (Chair)

Liam REEVE, “Skill Diversification Strategies for International Finance Centers to become FinTech capitals”, Expected Graduation 2023

Masters Students Advised

ZHANG Zixuan, “Gender disparities in involvement and collaboration on patenting activities in Chinese cities”, 2021

WANG Xinyu, “The geography & evolution of complex knowledge in China”, 2020

WAN Po Lung, “Explaining the spatial distribution of the automobile industry in China between 1990-2015”, 2020

Kellogg School of Management – Northwestern University 2018 – 2019

Lecturer, Management & Organizations Department

- Network Analysis & Data Science (with Hyejin Youn)

University of California, Los Angeles 2013 – 2018

Teaching Assistant

- Global Economy (with John Agnew)
- Globalization (with Eric Sheppard)
- Regional Development (with David Rigby)
- Economic Geography (with David Rigby)

Utrecht University

2012 – 2013

Junior Assistant Professor

- Spatial Economics (40 students)
- Firm & Region (38 students)
- Economic Geography (35 students)

HONORS AND AWARDS

2021

Hui Oi-Chow Trust Fund (PI)

USD 8,800

Can Hong Kong be a FinTech capital?

Early Career Scheme Grant (PI)

USD 94,788

University Grants Committee of Hong Kong Government

2020

Seed Funding Basic Research (PI)

USD 18,700

University of Hong Kong

Best Publication Price (CO-PI)

USD 2,000

Forschungspreis KNZ

2019

Travel Bursary

USD 200

Young Scholar Initiative

2018

Travel Bursary

USD 300

Institute for New Economic Thinking

University Fellowship

USD 500

University of California, Los Angeles

2017

Graduate Student Grant

USD 3,000

UCLA Center for Economic History

Dissertation Year Fellowship

USD 36,325

UCLA Graduate Division

Outstanding Teaching Certificate

UCLA Geography Department

Travel Bursary USD 290
Regional Studies Association

2016

Graduate Student Grant USD 5,000
UCLA Center for Economic History

Travel Bursary USD 430
Young Economic Geographers Network

Travel Bursary USD 250
AAG Economic Geography Specialty Group

Travel Bursary USD 1,100
Summer Institute for Economic Geography

2015

Haynes Lindley Doctoral Dissertation Fellowship (PI) USD 20,000
Haynes Foundation

Graduate Summer Research Mentorship Award USD 6,000
UCLA Graduate Division

2013

PhD funding offer USD 170,000
UCLA Graduate Division

University Fellowship USD 20,000
UCLA Graduate Division

Bernhard Fellow EUR 5,000
Prins Bernhard Cultuurfonds

Fundatie van Renswoude Fellow EUR 6,000
Fundatie van de Vrijvrouwe van Renswoude

Marc de Smidt Prize EUR 500
Best Master Thesis - Faculty GeoSciences

INVITED LECTURES AND TALKS

Scheduled:

2022 Seminar	“Distance & acquiring know-how” HKMU Business School
2022 Seminar	“Distance & acquiring know-how” Lingnan University

Past:

2019 Seminar	“Innovation, Collaboration and Geography”, Hong Kong
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 University
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

Scheduled:

2022 Article presentation	TIM - Annual Meeting - Academy of Management
2022 Article presentation	Copenhagen Business School
2022 Article presentation	Bocconi University
2022 Article presentation	Global Conference on Economic Geography

Past:

2021 Article presentation	Early Career Conference - Research Policy	Online
2021 Article presentation	European Regional Science Association	Online
2020 Article presentation	Complex System Society - Zurich	Online
2020 Article presentation	European Regional Science Association	Online
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	Hanover
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

Volunteering

Representative at Social Science Counsel UCLA (2014-2015, 12 months p.t.)
Treasurer at UCLA Graduate Students Association (2014-2015, 12 months p.t.)
Head of Introduction Committee at Utrechtsch Studenten Corps (2009, 6 months full-time)
AIESEC Ambassador at 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, Industry and Innovation, Economic Geography, Journal of Economic Geography, PLOS One, Network Science, Scientometrics, Papers in Regional Science

Affiliations & Memberships

- Academy of Management
 - Strategic Management
 - Technology & Innovation Management
- California Center for Population Research
- Economic History Association
- American Association of Geographers
- Regional Studies Association

Academic Service

- University of Hong Kong
 - Board of Examiners – Taught Postgraduate Curricula
 - Search Committee Member – Chaired Professor Cities 2050
 - Departmental Ethics Coordinator
 - Departmental Teaching Assistants Coordinator
 - Member – National Security Law Working Group HKU
- Sir Edward Youde Memorial Fund Council
 - Selection Board Member

Languages

- Dutch (native)
- English (excellent)
- German (good)
- French (intermediate)

Software & Coding

- R
- Python
- JavaScript
- H2O.ai
- ArcGIS
- Adobe Suite

Hobbies

Trail-running, ultra-marathons (100km MacLehose Trail in 16 hours), football, camping and skiing

REFERENCES

Gianluca Carnabuci
Professor of Organizational Behaviour
Ingrid and Manfred Gentz Chair in Business & Society
ESMT Berlin
gianluca.carnabuci@esmt.org
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David Rigby
Professor of Economic Geography at UCLA
Professor of Statistics at UCLA
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+1-310-825-7334

Michael Storper
Professor of Urban Planning at UCLA
Professor of Economic Geography at London School of Economics
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Ron Boschma
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Professor of Innovation Studies at Stavanger University
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