

Curriculum vitae

Frank M. H. Neffke

Current organization

Organization: Growth Lab, Center for International Development (CID), Harvard
Kennedy School of Government (HKS), Harvard University
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Nationality Dutch

Work experience

2017 – now Research Director Growth Lab, CID, HKS
2016 – now Senior Research Fellow Growth Lab, CID, HKS
2012 – 2016 Postdoctoral Fellow Growth Lab, CID, HKS
2008 – 2012 Assistant professor Erasmus University Rotterdam: Applied
Economics, Organisation, Strategy and Entrepreneurship

Education

2004 – 2009 PhD student Universiteit Utrecht, department: Economic Geography
Supervisors: prof. dr. R.A. Boschma, prof. dr. K. Frenken
Title thesis: Productive Places, the influence of technological change
and relatedness on agglomeration externalities
Reading committee: prof. dr. G. Duranton, prof. dr. F. Malerba, prof.
dr. F. van Oort, prof. dr. B. Verspagen.
Defence: 10 July 2009, Ph. D. was awarded cum laude¹.
2002 – 2004 Bachelor *Spanish* (partial, University of Amsterdam)
2000 – 2004 Master *Philosophy* (University of Amsterdam, cum laude)
1998 – 2004 Bachelor and Master *Econometrics* (University of Amsterdam, cum
laude)
1997 – 1998 Propaedeutics *Beta-gamma* (cum laude)

Publications in peer reviewed journals

- Neffke (in press). The value of complementary coworkers, *Science Advances*.
- Hausmann, Neffke (2019). The workforce of pioneer plants, The role of worker mobility in the diffusion of industries. *Research Policy* 48(3): 628-648.
- Neffke, Hidalgo and Otto (2018). The mobility of displaced workers: How the local industry mix affects job search, *Journal of Urban Economics* 106: 1-26.
- Diodato, Neffke, O'Clery (2018). Why do industries coagglomerate? How Marshallian externalities differ by industry and have evolved over time. *Journal of Urban Economics* 106: 1-26.
- Hidalgo, Balland, Boschma, Delgado, Feldman, Frenken, Glaeser, He, Kogler, Morrison, and Neffke (2018). The principle of relatedness. *International Conference on Complex Systems*: 451-457.
- Neffke, Hartog, Boschma (2018). M Henning. Agents of structural change: the role of firms and entrepreneurs in regional diversification. *Economic Geography* 94 (1): 23-48.
- Neffke, Otto, Weyh (2017). Inter-industry labor flows. *Journal of Economic Behavior & Organization* 142: 275-292

¹ Highest distinction in the Netherlands.

- Coscia, Neffke (2017). Network backboning with noisy data. *2017 IEEE 33rd International Conference on Data Engineering (ICDE)*: 425-436.
- Otto, Nedelkoska, Neffke (2014). Skill-relatedness und Resilienz: Fallbeispiel Saarland. *Raumforschung und Raumordnung* 72(2): 133-151.
- Neffke & Henning (2013). Skill relatedness and firm diversification. *Strategic Management Journal*, 34(3): 297-316. (EMAEE best paper award 2009; CBS President's most imaginative paper award 2010).
- Neffke, Henning & Boschma (2012). The impact of aging and technological relatedness on agglomeration externalities: A survival analysis. *Journal of Economic Geography*, 12(2): 485-517.
- Neffke, Henning & Boschma (2011). How do regions diversify over time? Industry relatedness and the development of new growth paths in regions. *Economic Geography*, 87(3): 237-265.
- Neffke, Henning, Boschma, Lundquist & Olander (2011). The dynamics of agglomeration externalities along the life cycle of industries. *Regional Studies*, 45(1): 49-65.

Under review

- Knowledge Diffusion in the Network of International Business Travel (2019), with Michele Coscia and Ricardo Hausmann, 3rd round Nature Human Behaviour.

Working papers / conference papers

- Human Capital Mismatches along the Career Path (JERP #2010-051), with Ljubica Nedelkoska. (Best Young Scholar Paper Award DIME)
- Revealed Relatedness: Mapping Industry Space (PEEG #08.19) with Martin Henning.

Professional/non-peer-reviewed publications

- Neffke & Nedelkoska (2012). Report for the Province of Zuid-Holland (NL): "Skill-gerelateerdheid in de arbeidsmarkt van de provincie Zuid-Holland."
- Neffke (2011). Regional skill bases as a policy focus. *Regional insights* 2(1): 4.
- Neffke & Burger (2011). Economische waarde van kunst en cultuur. *EconomieOpinie.nl*, January 2011.
- Neffke, Burger, Van Oort & Boschma (2010). Report for the Dutch Ministry of Economic Affairs: "De evolutie van skill-gerelateerde bedrijfstakken in de Noordvleugel van de Randstad."
- Frenken & Neffke (2006). It's a small world: over netwerken en geografie. *Geografie* 15(4): 28-31.

Advisor/Examiner to PhD students

- Matté Hartog, Utrecht University, 2011-2015.
- External examiner viva voce Penny Mealy, University of Oxford, 2018.

Teaching

Development Policy Strategy, with Ricardo Hausmann, Harvard Kennedy School (2015, 2016, 2017)
Knowledge & Industrial Dynamics, Erasmus University Rotterdam (2010, 2011, 2012)
Seminar Topics in Organization and Strategy, Erasmus University Rotterdam (2011)
Seminar Dynamics and Entrepreneurship, Erasmus University Rotterdam (2010)
Capita Selecta: Entrepreneurship, Erasmus University Rotterdam (2009)
Introduction to Economic Geography, Utrecht University (2005, 2006, 2007)
Economic Growth and Regional Dynamics, Utrecht University (2005)

Awards and grants

- NWO free competition Ph.D. grant (2011, with R. Boschma, € 208,193.-)
- Best Young Scholar Paper Award (DIME Final Conference 2011)
- RSAI Dissertation Award 2010 (award for doctoral thesis in Regional Science)
- First Prize Early Career Poster Competition (sponsored by RSA and European Commission, DG Regional Policy)
- Van der Knaap Prijs 2010 (Koninklijke Hollandsche Maatschappij der Wetenschappen, triennial award for doctoral theses in the fields of human and economic geography and regional economics)
- CBS president's award for most imaginative paper (DRUID conference 2010)
- EMAEE best Ph. D. paper award (2009)

Keynotes

- Oct 2019 *Hackathon Jobs Diagnostics* World Bank, Washington DC (US)
May 2018 *Bangladesh rising conference*, Cambridge (US)
Feb. 2017 *4th Geography of Innovation conference*, Barcelona (ES)
Mar. 2017 *NoRSA 2017 Regions in Transition*, Karlstad (SE)
June 2017 *Networks, Complexity, and Economic Development*, Budapest (HU)
Sep. 2017 *Umeå University Conference on Mobility, Economic Transformation and Regional Growth*, Stockholm (SE)
June 2016 *Eurkind GCW 2016 Conference*, Valencia (ES)

PhD schools

- Aug. 2019 *13th Jena Summer Academy*, Jena (DE)
Dec. 2017 *PhD Workshop in Innovation, Complexity and Knowledge*, Turin (IT)
July 2017 *PhD course Economic development and the product space*, Rome (IT)
Mar. 2017 *PhD course: Regions in Transition*, Karlstad (SE)
Aug. 2015 *9th Jena Summer Academy*, Jena (DE)

Research visits

- 2011 MIT Media Laboratory (Boston, USA, 1 month)
2011 Friedrich-Schiller-Universität (Jena, Germany, 3 months)
2011 Institut für Arbeitsmarkt- und Berufsforschung (IAB) (Saarbrücken, Germany, 1 month)
2010 Friedrich-Schiller-Universität (Jena, Germany, 2 months)
2010 IAB (Saarbrücken, Germany, 1 month)
2004-2008 Lund University (Lund, Sweden, ca. 6 months, several visits)

Conference/workshop/invited speaker presentations

- Dec. 2019 Invited speaker Peking University, Beijing (CN)
Oct. 2019 Invited speaker Complexity Science Hub, Vienna (AT)
June 2019 Invited speaker Growth Diagnostics ECFIN at EU, Brussels (BE)
June 2018 Workshop Innovation in an International Context, Dublin (IE)
June 2018 Seminar INET University of Oxford, Oxford (UK)
Apr. 2018 Kellogg Data Science Seminar Series, Evanston IL (US)
Apr. 2018 AAG annual conference 2018, New Orleans LA (US)
Mar. 2018 Invited speaker LSE, London (UK)
Feb. 2018 Invited speaker GREtHA Bordeaux (FR)
Dec. 2017 MIT Organization Economics Seminar, Cambridge MA (US)
Dec. 2017 Invited speaker Hungarian Academy of Sciences Pécs (HU)
Nov. 2017 12th Meeting of the Urban Economics Association, Vancouver (CA)
Sep. 2017 Workshop Knowledge and Technology Transfer and Beyond Technische Universität Dresden (DE)

June 2017 Invited speaker World Bank, Washington (DC)
 June 2017 Invited speaker United Nations ILO, Geneva (CH)
 June 2017 RSA annual conference 2017, Dublin (IE)
 June 2017 Workshop EEG – Past, Present, Future, Dublin (IE)
 Apr. 2017 Panellist OECD workshop, Prague (CZ)
 Apr. 2017 AAG annual conference 2017, Boston MA (US)
 Apr. 2017 Panellist Global Empowerment Meeting 2017 Harvard, Cambridge (US)
 May 2017 Invited speaker MIT Innovation Lab, Cambridge (US)
 Mar. 2017 Invited speaker SPRU, Sussex (UK)
 Feb. 2017 NSF workshop Updating the Production Function for the Algorithmic Economy, Menlo Park CA (US)
 Feb. 2017 Invited speaker MIT Media Lab, Cambridge MA (US)
 Dec. 2016 APCTP 2016 Workshop on Frontiers of Physics, Pohang (KR)
 Sep. 2016 Invited speaker HBS, Cambridge (US)
 Aug. 2016 Invited speaker University of Huddersfield, Huddersfield (UK)
 Apr. 2016 Invited speaker World Bank, Washington DC (US)
 Apr. 2016 Panellist Global Empowerment Meeting 2016 Harvard, Cambridge (US)
 Apr. 2016 Workshop Spatial evolution of industries, jobs and innovative activities, New methods and data, Nice (FR)
 Feb. 2016 3rd Geography of Innovation conference, Toulouse (FR)
 Jan. 2016 Invited speaker Utrecht University, Utrecht (NL)
 Jan. 2016 Panellist Sri Lanka Economic Summit, Prime Minister’s Office, Colombo (LK)
 Dec. 2015 Workshop Evolutionary approaches informing research on entrepreneurship and regional development, Gothenburg (SE)
 Dec. 2015 Invited speaker IWH, Halle (DE)
 Nov. 2015 US-EU Workshop on cluster mapping and cluster-based economic development (HBS), Cambridge (US)
 Nov. 2015 10th Meeting of the Urban Economics Association, Portland OR (US)
 July 2015 IWH Workshop on firm exit and job displacement. Halle (DE)
 June 2015 DRUID conference, Rome (IT)
 Nov. 2014 Invited speaker University of Maastricht (NL)
 Nov. 2014 Invited speaker IAB, Nürnberg (DE)
 Nov. 2014 Invited speaker Manchester Business School, Manchester (UK)
 Nov. 2014 Invited speaker University of Turin, Torino (IT)
 Nov. 2014 Invited speaker European Training Foundation, Torino (IT)
 Nov. 2014 9th Meeting of the Urban Economics Association, Washington DC (US)
 Aug. 2014 Invited speaker: European Forum Alpbach, Alpbach (AT)
 July 2014 Schumpeter Conference, Jena (DE)
 June 2014 Workshop: Generation, Acquisition and Diffusion of Knowledge at the Individual, Organizational and Societal Level. Santa Fe Institute, Santa Fe (US)
 Apr. 2014 Invited speaker: OECD LEED-FPLD Meeting, Stockholm (SE)
 Feb. 2014 NBER productivity lunch. Cambridge (US)
 Dec. 2013 Invited speaker: Centre for Innovation, Research and Competence in the Learning Economy, Lund (SE)
 Sep. 2013 Invited speaker, United States Census Bureau
 Sep. 2013 Workshop: How Far Can “Big Data” Take Us Towards Understanding Cities? Santa Fe Institute, Santa Fe (US)
 June 2013 35th DRUID Celebration Conference 2013, Barcelona (ES)
 Aug. 2013 Workshop: Inside the Black Box. Santa Fe Institute, Santa Fe (US)
 June 2013 8th European Meeting on Applied Evolutionary Economics, Nice (FR)
 Oct. 2011 Workshop Networks and Time, Columbia University, New York (US)
 Sep. 2011 Macro connections seminar, CID Harvard University, Boston (US)

Aug. 2011 ERSA conference, Barcelona (ES)
Aug. 2011 EEA conference, Oslo (NO)
May 2010 TASKS workshop, BIBB/IAB, Nürnberg (DE)
Sept. 2009 DIME workshop: Technology, skills & geography, SPRU, Sussex (UK)
May 2009 6th EMAEE conference, Jena (DE)
May 2009 1st annual SERC conference, LSE, London (UK).
June 2008 25th DRUID Celebration Conference, plenary session, Copenhagen (DK)
Jan. 2008 International workshop on industrial dynamics and economic geography, Utrecht (NL)
Aug. 2007 European Regional Science Association conference 2007, Paris (FR)
April 2007 American Association of Geographers 2007, San Francisco (US)
May 2006 International Workshop on Spatial Statistics and Econometrics, Luiss 'Guido Carli' University, Rome (IT)
May 2006 ECIS-URU workshop, Eindhoven (NL)

Computer skills

STATA, Matlab, Python

Language skills

Dutch (native), German (fluent), English (fluent), Spanish (good), French (moderate)