

# Wouter Spekkink – Curriculum Vitae 2018-07

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<b>Date of Birth</b>	9 <sup>th</sup> May 1986	<b>Email</b>	wouter.spekkink@manchester.ac.uk wouterspekkink@gmail.com
<b>Nationality</b>	Dutch	<b>Website</b>	www.wouterspekkink.org
		<b>Google Scholar</b>	Google Scholar
		<b>Website</b>	ResearchGate
		<b>Github</b>	GitHub

## Personal record

### Education and qualifications

**2011-2016** Ph.D in Public Administration - Erasmus University Rotterdam, Rotterdam

*Thesis - Industrial Symbiosis as a Social Process*

*Supervisors - Prof. Dr. Ing. G.R. Teisman & Prof. Dr. F.A.A. Boons*

*(nominated for annual Van Poelje best thesis award)*

**2011-2014** Doctorate Program in Public Administration and Political Science -  
National Institute of Government

*Configurational Comparative Approaches*

*Content Analysis*

*General Methodology*

*Operationalization*

*Network Analysis*

*Public Administration Core Themes*

*Public Administration Master Class*

*Research Methods and Skills*

**2008-2009** M.Sc. in Public Administration - Erasmus University Rotterdam, Rotterdam

*Specialization: Governance of Complex Spatial Developments*

**2004-2008** B.Sc. in Public Administration - Erasmus University Rotterdam, Rotterdam

### Employment History

**Jul 2016 - Present** **Research Associate** - Sustainable Consumption Institute

University of Manchester

*Manchester, The United Kingdom*

**Nov 2015 - Jun 2016** **Postdoctoral Researcher** - Policy, Organization, Law and Gaming section

Delft University of Technology

*Delft, The Netherlands*

- Jan 2015 - Postdoctoral Researcher** - Energy & Industry section  
**Jun 2016** Delft University of Technology  
*Delft, The Netherlands*
- Apr 2012 - Visiting Researcher** - Department of Pollution Ecology  
**Aug 2012** Institute of Applied Ecology - Chinese Academy of Sciences  
*Shenyang, China*
- Aug 2010 - Ph.D. Candidate** - Department of Public Administration  
**Feb 2016** Erasmus University Rotterdam  
*Rotterdam, The Netherlands*
- Sep 2009 - Junior Researcher** - Department of Public Administration  
**Aug 2010** Erasmus University Rotterdam  
*Rotterdam, The Netherlands*
- Feb 2009 - Intern** - DHV Eindhoven  
**Jul 2009** DHV Consultancy  
*Eindhoven, The Netherlands*

## Professional Memberships

- 2011 -** International Society for Industrial Ecology  
**Present** Section membership: Eco-Industrial Development and Industrial Symbiosis
- 2010-2015** Netherlands Institute of Government  
 Ph.D. Student Member

## Languages and skills

### ■ Spoken/Written Languages

*Dutch* - Native speaker  
*English* - Proficient

### ■ Programming Languages

*C++* - Working knowledge  
*R* - Working knowledge  
*Java* - basic skills  
*Python* - basic skills

## Research and academic/professional standing

### Research interests

My current research agenda has two main pillars. First, my theoretical interest lies in the application of social practice theories to studies of 'larger social phenomena'. More specifically, I apply social practice theories in studies of the emergence and development of grassroots and/or community sustainability initiatives, asking, among other things, how these initiatives shape, and are shaped by the environment in which they emerge, what kind of sustainability practices they develop and/or promote, and what other practices they engage in to support and diffuse these

sustainability practices.

The second pillar of my research agenda is the development and application of methods that are specifically designed for studies of social processes. Here, I focus specifically on the application of graph-theoretical approaches, including *event graphs* to model complex social processes as networks of events, *occurrence graphs* to visualise the (co-)occurrence of various types of entities in events in a temporally sensitive way (e.g., visualising how the joint involvement of actors in events evolves over time), and *network graphs* for the (qualitative) analysis of network dynamics that emerge from social processes. I am currently developing an integrated software package that can be used to support in-depth, longitudinal studies of social processes, called Q-SoPrA (acronym for Qualitative Social Process Analysis). The software can be used (1) to create and manage event data sets, (2) to perform multiple qualitative coding tasks (to code event data), and (3) to visualise the coded data using the aforementioned types of graphs.

## Journal Articles: International Peer-Reviewed

- Rui, M. & **Spekkink, W.A.H.** (2018). A Running Start or a Clean Slate? How a History of Cooperation Affects the Ability of Cities to Cooperate on Environmental Governance. *Sustainability*, 10(6), 1950.
- Pesch, U., **Spekkink, W.A.H.** & Quist, J. N. (2018). Sustainable Community Initiatives: Innovation and Civic Engagement in Societal Experiments. *European Planning Studies*. DOI: 10.1080/09654313.2018.1464549.
- Fischer, A., **Spekkink, W.A.H.** & Polzin, C. (2018). Social representations of governance for societal change towards sustainability: the perspectives of sustainability advocates. *Environmental Politics*. DOI: 10.1080/09644016.2018.1448559.
- Sun, L., **Spekkink, W.A.H.**, Cuppen, E. & Korevaar, G. (2017). Coordination of Industrial Symbiosis through Anchoring. *Sustainability* 9(4), 549.
- Sprecher, B., Daigo, I., **Spekkink, W.A.H.**, Vos, M., Kleijn, R., Murakami, S. & Kramer G.J. (2017). Novel indicators for the quantification of resilience in critical material supply chains, with a 2010 rare earth crisis case study. *Environmental Science & Technology*. DOI: 10.1021/acs.est.6b05751.
- Spekkink, W.A.H.**, Teisman, G.R. & Boons, F.A.A. (2017). Duurzame Innovation in Industriële clusters: Rollenspel tussen ondernemers en publieke assembleurs [Sustainable Innovation in Industrial clusters: Roles of entrepreneurs and public assemblers. *Bestuurskunde*, 4.
- Boons, F.A.A., Chertow, M.R., Park, J., **Spekkink, W.A.H.** & Shi, H. (2016). Industrial Symbiosis Dynamics and the Problem of Equivalence: Proposal for a Comparative Framework. *Journal of Industrial Ecology*. DOI: 10.1111/jiec.12468.
- Spekkink, W.A.H.** & Boons, F.A.A. (2016). The Emergence of Collaborations. *Journal of Public Administration Research and Theory* 26(4), 613-630.
- Schipper, D. & **Spekkink, W.A.H.** (2015). Balancing the Quantitative and Qualitative Aspects of Social Network Analysis to Study Complex Social Systems. *Complexity, Governance & Networks* 2 (1), 5-22.

**Spekkink, W.A.H.** (2015). Building capacity for sustainable regional industrial systems: an event sequence analysis of developments in the Sloe Area and Canal Zone. *Journal of Cleaner Production* 98: 133-144.

Boons, F.A.A., **Spekkink, W.A.H.** & Jiao, W. (2014). A process perspective on industrial symbiosis: Theory, methodology and application. *Journal of Industrial Ecology*, 18(3): 341-355.

**Spekkink, W.A.H.** (2013). Institutional capacity building for industrial symbiosis in the Canal Zone of Zeeland in the Netherlands: a process analysis. *Journal of Cleaner Production*, 52, 342-355.

Boons, F.A.A. & **Spekkink, W.A.H.** (2012). Levels of institutional capacity and actor expectations about industrial symbiosis: evidence from the Dutch stimulation program 1999 – 2004. *Journal of Industrial Ecology*, 16(1), 61-69.

Boons, F.A.A., **Spekkink, W.A.H.** & Mouzakis, Y. (2011). The dynamics of industrial symbiosis: A proposal for a conceptual framework based upon a comprehensive literature review. *Journal of Cleaner Production*, 19, 905-911.

## Book Chapters

**Spekkink, W.A.H.** & Boons, F.A.A. (2015). Stage models of industrial symbiosis: A congruence analysis of Sustainable Connections in the port of Moerdijk. In: Y. Alix, N. Mat & J. Cerceau (Eds.). *Économie Circulaire et Écosystèmes Portuaires [Circular Economy and port ecosystems]*. Cormelles-le-Royal: EMS, pp. 243-266.

**Spekkink, W.A.H.** (2015). Varieties of Industrial Symbiosis. In Deutz, P., Lyons, D. & Bi, J. (Eds), *International Perspectives on Industrial Ecology*, Cheltenham: Edward Elgar, pp. 142-156.

Boons, F.A.A., **Spekkink, W.A.H.**, Isenmann, R., Baas, L.W., Eklund, M., Brullot, S., Deutz, P., Gibbs, D., Massard, G., Arozamena, E.R., Puente, M.C.R., Verguts, V., Davis, C., Korevaar, G., Costa, I. & Baumann, H. (2015). Comparing industrial symbiosis in Europe: Towards a conceptual framework and research methodology. In Deutz, P., Lyons, D. & Bi, J. (Eds), *International Perspectives on Industrial Ecology*. Cheltenham: Edward Elgar, pp. 66-89.

## Professional Publications and Working Papers

Boons, F.A.A. & **Spekkink, W.A.H.** (2015). Verinnerlijking van milieuverantwoordelijkheid in de Nederlandse chemische industrie: Over de complexiteit van meervoudige processen (in Dutch, with an English appendix). Wetenschappelijke Raad voor het Regeringsbeleid (WRR): Working Paper 5. URL: <http://www.wrr.nl/publicaties/publicatie/article/verinnerlijking-vanmilieuverantwoordelijkheid-in-de-nederlandse-chemische-industrie-overde-comple/>

**Spekkink, W.A.H.**, Eshuis, J., Roorda, C., Stuiver, M. & Van Steenberg, F. (2013). Transition management at the local scale. An analysis of challenges in transition management at the local scale: An analysis of challenges in transition management at the local scale in two case studies. DRIFT Working Paper #2.

Boons, F.A.A., **Spekkink, W.A.H.** & Stift, N. (2012). Duurzame industriële clusters: wat werkt? (in Dutch). Milieu: Opinieblad van de Vereniging van Milieuprofessionals (VVM), Oktober(nr. 6), 45-47.

## Conference Papers

- Spekkink, W.A.H.**, & Boons, F. A. A. (2018). Economic localisation as a form of social innovation: a longitudinal case study of community sustainability initiatives in Staveley, the United Kingdom. Paper presented at *Sustainable Materialism Workshop*, 12 July, Edinburgh, United Kingdom.
- Spekkink, W.A.H.**, & Boons, F. A. A. (2018). Community sustainability initiatives as chains of action: An exploration of the teleoffective formations of community sustainability initiatives in Staveley, the UK. Paper presented at *Workshop: Practices and the Practical Dimension in the Study of Social Life*, 9-11 July, Copenhagen, Denmark.
- Spekkink, W.A.H.**, Quist, J. & Pesch, U. (2018). Grassroots sustainability initiatives and the translation of practices: A refined framework with illustrative cases on repairing. Paper presented at *IST 2018 International Conference on Innovation and Sustainability Transitions*, 12-14 June, Manchester, United Kingdom.
- Spekkink, W.A.H.**, & Boons, F. A. A. (2018). Social innovation as interconnected chains of action: Using a graph-theoretical approach to study social innovation processes. Paper presented at *IST 2018 International Conference on Innovation and Sustainability Transitions*, 12-14 June, Manchester, United Kingdom.
- Spekkink, W.A.H.**, (2018). Introducing Q-SoPrA: A software suite for qualitative analysis of social processes. Poster presented at *IST 2018 International Conference on Innovation and Sustainability Transitions*, 12-14 June, Manchester, United Kingdom.
- Spekkink, W.A.H.**, Quist, J. & Pesch, U. (2017). Re-crafting social practices through grassroots initiatives: A refined framework, and cases on repairing and renewable energy. Paper presented at *IST 2017 International Conference on Innovation and Sustainability Transitions*, 18-21 June, Gothenburg, Sweden.
- Boons, F.A.A. & Spekkink, W.A.H. (2016). Field Evolution as a social process. Dutch chemical industry and environmental impact, 1990-2012. *Academy of Management Proceedings* 2016 (1), 16019.
- Pesch, U., Quist, J. & **Spekkink, W.A.H.** (2015) Citizen initiatives, sustainable innovations and the rise of the sharing economy: Conceptualizations, governance and cases in energy, product repair and urban agriculture. Paper presented at *Sharing Economy Workshop*, 4-5 June 2015, Utrecht University, Utrecht, the Netherlands.
- Boons, F.A.A., **Spekkink, W.A.H.**, Jiao, W., Isenmann, R., Baas, L.W., Eklund, M., Baumann, H., Brullot, S., Deutz, P., Gibbs, D., Massard, G., Romero Arozamena, E., Ruiz Puente, C., Verguts, V., Davis, C., Korevaar, G., Jacobsen, N.B. & Costa, I. (2013). Mapping the Diversity of Industrial Symbiosis: Comparative analysis of European public and private efforts to develop symbiotic networks. Paper presented at *7th International Society for Industrial Ecology Biennial Conference*, 25-28 June, 2013, Ulsan, South Korea.
- Spekkink, W.A.H.**, Nuhoff-Isakhanyan, G., Boons, F.A.A. & Wubben, E. (2013). Collective action for (Agro-)Industrial Symbiosis: Structure and Process. Paper presented at the *7th International Society for Industrial Ecology Biennial Conference*, 25-28 June, 2013, Ulsan, South Korea.
- Spekkink, W.A.H.** (2013). Building Institutional Capacity for Industrial Symbiosis. Paper presented at *ASPA Annual Conference: Governance & Sustainability – Local Concerns, Global Challenges*, 15-19 March, 2013, New Orleans, United States of America.

- Spekkink, W.A.H.** & Schipper, D. (2012). The Coordination of Co-Siting in the Chemical Process Industry. Paper presented at the *2012 NIG Annual Work Conference*, 29-30 November, 2012, Leuven, Belgium.
- Boons, F.A.A. & **Spekkink, W.A.H.** (2012). A Method for Policy Dynamics: How History Matters. Paper present at the *2012 NIG Annual Work Conference*, 29-30 November, 2012, Leuven, Belgium.
- Spekkink, W.A.H.**, Eshuis, J., Loorbach, D.A., Roorda, C.S., Stuiver, M. & Steenbergen, F.S. van (2012). Area Based Transition Management: An analysis of challenges and tensions in two Dutch case studies. Paper presented at the *7th Conference on Interpretive Policy Analysis*, 5-7 July, 2012, Tilburg, The Netherlands.
- Boons, F.A.A. & **Spekkink, W.A.H.** (2012). Governance as a process. Paper presented at the *7th Conference on Interpretive Policy Analysis*, 5-7 July, 2012, Tilburg, The Netherlands.
- Spekkink, W.A.H.** & Verweij, S. (2011). Understanding and researching complex governance processes: Towards a multi-method approach based on qualitative comparative analysis (QCA) and event sequence analysis (ESA). Paper present at the Netherlands Institute of Government Annual Work Conference, 1-2 December, 2011, Rotterdam, The Netherlands.
- Spekkink, W.A.H.** & Boons, F.A.A. (2011). The governance of industrial symbiosis. Paper presented at the *6th International Society for Industrial Ecology Biennial Conference*, 7-10 June, 2011, Berkeley, United States of America.
- Boons, F.A.A., Baas, L.W., Baumann, K., Brullot, S., Davis, C., Deutz, P., Eklund, M., Gibbs, D., Isenmann, R., Koorevaar, G., Massard, G., Romero, E., Sakr, D., **Spekkink, W.A.H.** & Verguts, V. (2011). Industrial symbiosis in Europe. Paper presented at the *6th International Society for Industrial Ecology Biennial Conference*, 7-10 June, 2011, Berkeley, United States of America.
- Boons, F.A.A. & **Spekkink, W.A.H.** (2010). Country report The Netherlands. Paper presented at *workshop on Industrial symbiosis in Europe*, 28-30 January, 2010, Rotterdam, The Netherlands.
- Spekkink, W.A.H.** & Boons, F.A.A. (2010). A varieties of capitalism approach to EIP development. Paper presented at the *16th International Sustainable Development Research Society Conference*, 30 May - 1 June, Hongkong, China.
- Boons, F.A.A., Mouzakitidis, Y. & **Spekkink, W.A.H.** (2009). Projects, Parks, and Policy programs: The Evolution of Eco-Industrial Parks in The Netherlands, 1999-2009. In S. El-Haggar, D. Sakr & L. El-Hatow (Eds.), *Sustainable development around the globe*. Cairo: AUC.

## Research grants awarded

Date	Role	Project title	Funder	Amount awarded
2018-2019	Principal investigator	The coordination of grassroots innovation networks: a pilot study	Sustainable Consumption Institute	£3500
2018-2019	Co-investigator	Endangered Practices — Maintenance and Repair: Pilot Study and Development for International Collaborative Research Bid	Sustainable Consumption Institute	£4950
2014-2015	Principal investigator	The impact of Dutch Environmental Policies on Business Strategies	Scientific Council for Government Policy	€50.000

## Experience in other commissioned research projects

Date	Role	Project title	Funder
2016-2016	Postdoctoral researcher	Smart Industrial Parks	Dutch National Science Foundation
2015-2016	Postdoctoral researcher	Green Lifestyles, Alternative Models and Upscaling Regional Sustainability	European Commission (Seventh Framework Program)

## Other awards, grants and prizes

- 2013** Travel Grant (€500)  
*Erasmus Trust Fund, Rotterdam, The Netherlands*
- 2013** Travel Grant (€1474)  
*Netherlands Institute of Government, Rotterdam, The Netherlands*

## Invited presentations and talks

- Nov, 2016** PhD Course on Event Sequence Analysis (lecturer)  
*Linköping University, Sweden*
- May, 2016** Guest lecture in course on Sustainable Innovation & Transitions  
*Delft University of Technology, The Netherlands*
- Jan, 2016** Invited talk on Event Sequence Analysis  
*University of Bamberg, Germany*

- Nov, 2015** Guest lecture in course on Social Systems - Policy and Management  
*Delft University of Technology, The Netherlands*
- Nov, 2015** Guest lecture in master program Industrial Ecology  
*Delft University of Technology, The Netherlands*
- May, 2015** Guest lecture in Master Program Industrial Ecology  
*Delft University of Technology, The Netherlands*
- Mar, 2015** Guest lecture in Master Program Industrial Ecology  
*Delft University of Technology, The Netherlands*
- Mar, 2014** Guest lecture in Master Program Industrial Ecology  
*Delft University of Technology, The Netherlands*
- Nov, 2013** PhD Course on Institutional Capacity Building (lecturer)  
*Linköping University, Sweden*
- Apr, 2013 - Jul, 2013** - Three guest lectures on institutional capacity building for industrial symbiosis  
*Institute of Applied Ecology, Shenyang, China*
- Sep, 2011** Northeast Asia Eco-Forum 2011  
*Institute of Applied Ecology, Shenyang, China*

## Other academic service

- 2012** Panel Chair and Organizer (with Lieselot Vandenbussche & Stefan Verweij)  
**Netherlands Institute of Government Annual Work Conference**  
*Leuven, Belgium*
- 2011** Co-organizer (with Frank Boons, Nanny Bressers, Lasse Gerrits, Peter Marks & Stefan Verweij)  
**International Research Conference Compact-Work**  
*Rotterdam, The Netherlands*

## Teaching and student supervision

- 2015 - 2016** **Supervisor in Agent Based Modelling assignment**  
*Delft University of Technology, Delft, The Netherlands*  
2 students
- 2015** **Co-supervisor Interdisciplinary Project Group Industrial Ecology**  
*Delft University of Technology, Delft, The Netherlands*  
5 students
- 2014** **Second supervisor: Master Thesis Industrial Ecology**  
*Delft University of Technology, Delft, The Netherlands*  
1 student
- 2013 - 2014** **Junior Lecturer: Network Governance**  
*Erasmus University Rotterdam, Rotterdam, The Netherlands*  
Bachelor 3 Program Public Administration  
Approx. 20 students, 8 Lectures per course



- 2013 - 2014**      **Second Supervisor: Master Theses Public Administration**  
*Erasmus University Rotterdam, Rotterdam, The Netherlands*  
2 students
- 2010**      **Junior Lecturer: Introductory Courses Public Administration**  
*Erasmus University Rotterdam, Rotterdam, The Netherlands*  
Bachelor 1 Program Public Administration  
Approx. 20 students, 8 Lectures per course  
*Courses: Core Questions of Public Administration, Introduction to Public Administration Research, Introduction to Sociology*

## **Academic Enterprise and Knowledge Transfer**

- May, 2017**    Invited talk at WarmCO2 conference on Industrial Symbiosis  
*Terneuzen, the Netherlands*
- Mar, 2016**    Co-organizer and facilitator in backcasting workshop on sustainable lifestyles  
and citizen initiatives  
*Delft, The Netherlands*
- Nov, 2015**    Co-organizer and facilitator in visioning workshop on sustainable lifestyles  
and citizen initiatives  
*Delft, The Netherlands*
- Dec, 2013**    Invited talk at symposium on Eco-Industrial Development  
*Roosevelt Academy, Middelburg, The Netherlands*
- Feb, 2013**    Organizer and facilitator in workshop building blocks for sustainable industrial clusters  
*Province of Zeeland, Middelburg, The Netherlands*

## **Service and Leadership**

- Sep, 2013 -**    Board member of section on Eco-Industrial Development and Industrial Symbiosis  
**Dec, 2017**    *International Society of Industrial Ecology*