

# dr Crelis F. Rammelt

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## Profile

*An innovative and committed academic with strong interdisciplinary profile seeks role as assistant professor — Throughout my career, I have enjoyed the challenges of forging links across disciplinary divides and developing original scientific approaches and insights. I am also leading a successful action research programme with practitioners in the field. Whether working on my own initiative or in a team, I am highly self-motivated, conscientious and reliable.*

## Employment

### Postdoctoral researcher

**Nov 2018 – Present**

*Human Geography & Planning; Utrecht University. The Netherlands*

- Research on inequality, vulnerability and watershed development in the Cauvery delta, India.
- Building collaborations across the university's 'Future Food' and 'Future Deltas' knowledge hubs under the Prince Claus Chair in Development and Equity.
- Supervision 1 MSc, 1 PhD with Ashoka Trust for Research in Ecology and the Environment.

### Lecturer

**March 2013 – Present**

*Institute of Interdisciplinary Studies; University of Amsterdam. The Netherlands.*

- Development and coordination of 'Global Inequities' and 'Degrowth' (Honours, interfaculty). Evaluations (scores out of 10): 8, 8.1, 8.3, 8.2 (between 2015-2018),
- Development and coordination of courses in system dynamics and interdisciplinary research (BSc Future Planet Studies).
- Development of a minor in heterodox economics. Co-development of BSc programme 'Future Planet Studies 2.0'.

### Senior researcher

**July 2018 – Oct 2018**

*Metabolic. Sustainability consulting company. The Netherlands.*

- Research and coordination of environmental consultancy projects.
- Development and application of one-planet (planetary boundaries) and systems approaches.

### Postdoctoral researcher

**Oct 2014 – Oct 2017**

*Human Geography & Planning; Utrecht University. The Netherlands*

- Research on inclusiveness and impacts of road developments in rural Ethiopia.
- Coordination of international consortium of university, consultancy and government partners.
- Supervision honours, BSc, 8 MSc and 1 ongoing PhD (human geography, development studies).
- Lecturing in 'Development Themes' and 'Methods & Techniques' (MSc Development Studies).
- ~€500,000 Netherlands Organisation for Scientific Research (NWO) grant (proposal co-author).

### Research Fellow

**Dec 2012 – March 2014**

*Institute of Environmental Studies; University of New South Wales. Australia.*

- Research consultancy on community engagement in disaster management (Australia) and community resilience (Thailand, Bangladesh, India)
- ~€25,000 consultancy grant from Queensland Department of Community Safety (co-applicant).
- ~€50,000 UNSW International Research Collaboration grants (sole- and co-applicant).

### Lecturer and Research Coordinator

**Sept 2010 – Nov 2012**

*Institute of Environmental Studies; University of New South Wales. Australia.*

- Coordination of research methods courses, co-coordination 'Environment & Development' and re-design of 'Engineering Fundamentals' (MA Environmental Management, interdisciplinary).
- Research supervision (10 MAs and 2 PhDs) and management of research internships.
- Selected for the UNSW 'Universitas 21' Early Career Workshop on Environmental Sustainability.
- ~€114,000 Rural Industries Research and Development Corporation grants (co-applicant).

**Guest Lecturer and Tutor (during PhD)****Aug 2006 – Sept 2010***Faculty of Arts and Social Science; University of New South Wales. Australia.*

- Lecturing/tutoring humanities courses on development, globalisation and citizenship.

**Lecturer****Feb 2001 – Aug 2006***Technology, Policy and Management; Delft University of Technology. The Netherlands.*

- Coordination 'Technology, Poverty & Globalisation' and 'Technology in Sustainable Development' (MSc). Won a faculty award and nomination from the Dutch environment ministry.
- Central coordination of university-wide MSc programme in Sustainable Development.
- Management and supervision research internships in Bangladesh (BSc and MSc).

**Honorary professional work****Co-Founder, Research Director****May 2000 – Present***Arsenic Mitigation and Research Foundation. Bangladesh.*

- Coordination public health action research programme in response to arsenic contaminated groundwater, country office and community clinic with ~20 staff, as well as safe food and water projects with ~100 communities.
- Producer documentary on arsenic in Bangladesh (which won the 2013 Water Take 1 award).
- ~€50,000 yearly budget grants since 2001 (including ~15% towards research) from public and private donors, including: Prince Bernhard Culture Fund, JICA, UNSW, WaterAid, Penny Appeal.)

**Education****PhD degree****Aug 2006 – Nov 2009***Faculty of Arts and Social Science; University of New South Wales. Australia.*

- Development and Infrastructure in Marginalised Communities; Safe Drinking Water in Bangladesh.
- Achievements: University International Postgraduate Award (~€40,000, sole-applicant).

**Bachelor and Master of Science degrees****Sept 1992 – Sept 1999***Faculty of Industrial Design Engineering; Delft University of Technology. The Netherlands.*

- Appropriate technology for agriculture in Tanzania (MSc). Water management and participation in Bangladesh (BSc). Co-supervised by the faculty of Technology and Society.
- Achievements: Grant awards, including from the Dutch Association for Engineers (KIVI).

**International Baccalaureate****Oct 1985 – June 1992***Lycée International des Pontonniers. France.***Teaching certificates**

Dutch University Teaching Qualification (2015), Foundations of University Learning and Teaching (2012)

**Skills and Interests****Languages**

Native Dutch, Native French and Fluent English

**Advanced computer skills**

Qualitative/quantitative research tools (NVivo, STELLA, Excel); Course management platforms; Audio-video editing software (for research communication and teaching materials).

**Selected professional associations**

- Co-Founder Ontgroeï—a Dutch-based degrowth platform (2018-present)
- Steering committee member for the 7th International Degrowth Conference (2018-present)
- Chairman Evaluation Committee Interdisciplinary Honours Programme (IIS UvA) (2018-present)
- Sounding board Action Research and Community Engagement project (USBO UU) (2017-2018)
- Future Deltas, interdisciplinary research focus area at Utrecht University (2014-2017)
- Australian Learning and Teaching Council (ALTC) leadership network (2010-2012)
- International Society of Groundwater Resources for Sustainable Development (2006-2009)

## Hobbies

I enjoy a game of squash, composing music and animated discussions with my reading group.

## Conferences and workshops

### Presenter (selection)

6th International Degrowth Conference (2018); 2nd National Interdisciplinary Education Conference (2018); Association of American Geographers Annual Meeting (2017); Global Conference on Economic Geography (2015); 5th World Sustainability Forum (2015); Conservation through Sustainable Use (2010); Annual Sustainable Development Research Conference (2005); Engineering Education in Sustainable Development Conference (2002, 2004).

### Keynote speaker

UNESCO Chair Asia Regional International Leadership Forum on Human Rights, Bangkok (2012); Roundtable on "Arsenic: Risk for Public Health" Dhaka (2016).

### Recent invited lectures (selection)

The exclusive nature of inclusive productive employment (Include Knowledge Platform, 2018); Systems Thinking and the Dynamics of Degrowth (Amsterdam University College, 2018); Development in Bad Waters (Amnesty International Maastricht Students, 2017); Rural roads and inequality (Dutch Ministry of Foreign Affairs, 2016); Development in Bad Waters (University of New South Wales, 2016); Water governance conflicts in the Lower Ganges basin (Utrecht University, 2015).

### Organiser

7th International Degrowth Conference (to be held in 2021); Feeder Roads for Inclusive Development in Ethiopia (2016, 2017); International Research Workshops on Arsenic Contamination, India and Bangladesh (2011, 2012); Bioenergy from Agroforestry stakeholder workshop, Central Tablelands, Australia (2010, 2012); Panel for the Asian Studies Association Conference, Australia (2012); Panel for Governance by Sustainable Development Goals, Netherlands (2016, 2018).

## Publications

### Submitted manuscripts

Rammelt, C.F., IN REVIEW. The spiralling economy: capital as a flow-fund system. *Environmental Values*.  
Rammelt, C.F., ACCEPTED. The dynamics of financial instability: simplifying Keen's Goodwin-Minsky model. *System Dynamics Review*.  
Gebru, K.M., Rammelt, C.F., Zoomers, A., Leung, M., & van Westen, G., ACCEPTED. Linking smallholder farmers to inclusive malt barley business: Inclusion and food security in northern Ethiopia. *Food Security*.  
Gebru, K.M., Rammelt, C.F., Zoomers, A., Leung, M., & van Westen, G., IN REVIEW. The integration of smallholder sesame farmers in inclusive business: Empirical evidence from northern Ethiopia. *Food Policy*.

### Refereed journal articles

Gebru, K.M., Leung, M., Zoomers, A., Rammelt, C.F., & van Westen, G., 2019. Vegetable business and smallholders' food security: Empirical findings from northern Ethiopia. *Sustainability*, 11(3), 743.  
Rammelt, C.F., 2018. Infrastructures as catalysts: precipitating uneven patterns of development from large-scale infrastructure investments. *Sustainability*, 10(4), 1286.  
Rammelt, C.F., Masud, Z., Masud, A., & Boes, J., 2018. The Waterways of Tangail: failures to learn from flood control efforts in the Brahmaputra basin of Bangladesh. *Water Alternatives*, 11(1), 106-124.  
Rammelt, C.F., Leung, M., & Gebru, K.M. 2017. The exclusive nature of inclusive productive employment in the rural areas of northern Ethiopia. *Work, Employment and Society*, 08/17, 1-17.  
Rammelt, C.F., van Schie, M., Tegabu, F., & Leung, M. 2017. Vaguely Right or Exactly Wrong: Measuring the Spatial Distribution of Land Resources, Income and Wealth in Rural Ethiopia. *Sustainability*, 9(6), 962.  
Rammelt, C.F., Leung, M., 2017. Tracing the causal loops through local perceptions of rural road impacts in Ethiopia. *World Development*, 95(07/17), 1-14  
Fletcher, R., Rammelt, C.F. 2016. Decoupling: A Key Fantasy in the Post-2015 Sustainable Development Agenda. *Globalizations*, 14(3), 1-18.

- Rammelt, C.F., van Schie, M., 2016. Ecology and equity in global fisheries: Modelling policy options using theoretical distributions. *Ecological Modelling*, 337(10/16), 107-122.
- Rammelt, C.F., Masud, Z., Boes, J., & Masud, F., 2014. Toxic injustice in the Bangladesh water sector: A social inequities perspective on arsenic contamination. *Water Policy*, 16(S2), 121-136.
- Rammelt, C.F., & Crisp, P., 2014. A systems and thermodynamics perspective on technology in the circular economy. *Real World Economics Review*, 68, 25-40.
- Rammelt, C.F., 2014. Participatory Action Research in Marginalised Communities: Safe Drinking Water in Rural Bangladesh. *Systemic Practice and Action Research*, 27(3), 195-210.
- Rammelt, C.F. & Boes, J., 2013. Galtung Meets Daly; a Framework for Environment and Development. *Ecological Economics*, 93(2013), 269-277.
- Rammelt, C.F., Masud, Z.M., Masud, F. & Boes, J., 2011. Beyond medical treatment, arsenic poisoning in rural Bangladesh. *Social Medicine*, 6(1), pp.30-38.
- Quist, J., Rammelt, C.F. et al., 2006. Backcasting for sustainability in engineering education: the case of Delft University of Technology. *Journal of Cleaner Production*, 14(9-11), 868-876.
- Rammelt, C.F. & Boes, J., 2004. Arsenic Mitigation and Social Mobilisation in Bangladesh. *International Journal of Sustainability in Higher Education*, 5(3), 308-319.

### **Book chapters**

- Rammelt, C.F., 2012. The uncertainties and inequalities of groundwater use in Bangladesh. In J. Merson, R. Cooney & P. Brown, eds. *Conservation in a Crowded World: Case studies from the Asia-Pacific*. Sydney: UNSW Press, pp.147-166.
- Bubna-Litic, D. & Rammelt, C.F., 2011. Case Study: Shell. In S. Clegg et al., eds. *Strategy: Theory and Practice*. Sydney: Sage Publications Ltd, pp.420-430.
- Rammelt, C.F. & Boes, J., 2008. The Autonomy of Local Drinking Water Institutions in Rural Bangladesh. In Prosun Bhattacharya et al., eds. *Groundwater for Sustainable Development - Problems, Perspectives and Challenges*. London: Taylor & Francis, pp.399-409.
- Rammelt, C.F. & Boes, J., 2005. Implementation of Safe Drinking Water Supplies in Bangladesh. In J. Bundschuh, Prosun Bhattacharya, & D. Chandrasekharam, eds. *Natural Arsenic in Groundwater: Occurrence, Remediation and Management*. London: Taylor & Francis, pp.307-318.

### **Monograph**

- Rammelt, C.F., 2009. Development and Infrastructure in Marginalised Communities, Safe Drinking Water in Rural Bangladesh. Sydney: University of New South Wales.

### **Reports**

- Rammelt, C.F., van Steenbergen, F., ...Woldearegay, K., 2017. *The Wider Road to Inclusive Development*. Utrecht University, Mekelle University, Institute of Development Studies Sussex, Bureau of Construction Roads and Transportation, MetaMeta and the Horn of Economic and Social Policy Institute.
- Rammelt, C.F., 2015. Systems Thinking Handbook: a tool for analysis and action. Amsterdam: IIS.
- Brown, P.F., Arvanitakis, J., Chapple, R., Merson, J., & Rammelt, C.F. 2012. Disaster Management Community Engagement and Education: Environmental Scan and Options Analysis. Brisbane: Emergency Management Queensland.
- Baumber, A., Rammelt, C.F. Ampt, P., & Merson, J., 2012. Bioenergy from Native Agroforestry: planning for a Regional Industry in the NSW Central Tablelands. Canberra: RIRDC.
- Merson, J., Ampt, P., Rammelt, C.F. & Baumber, A., 2011. Bioenergy from Native Agroforestry: an assessment of its potential in the NSW Central Tablelands. Canberra: RIRDC.
- Rammelt, C.F., 2001. *Delft University of Technology DUT-Bangladesh linkage programme: evaluation and recommendations*. Dhaka and Delft: Faculty of Civil Engineering and Geosciences, and Faculty of Technology, Policy and Management.

### **Conference proceedings**

- Rammelt, C.F. & Boes, J., 2007. Experiences with the management and implementation of drinking water supplies in Bangladesh. In *3rd International Groundwater Conference, "Water, Environment and Agriculture - Present Problems and Future Challenges"*. Coimbatore: TNAU.

- Rammelt, C.F., Nikolic, I. et al., 2005. Complex Systems Approach to Development "Aid". In *11th Annual International Sustainable Development Research Conference*. Helsinki, Finland: University of Tampere.
- Rammelt, C.F. & Boes, J., 2004. Technological Education and Projects in Developing Countries: Possibilities and Constraints. In D. Ferrer-Balas et al., eds. *International Conference on Engineering Education in Sustainable Development (EESD2004)*. Barcelona: CIMNE and UPC.
- De Werk, G., Rammelt, C.F. & Mulder, K.F., 2004. Interdisciplinary education as a way of shaping real sustainable engineers? In D. Ferrer-Balas et al., eds. *International Conference on Engineering Education in Sustainable Development (EESD2004)*. Barcelona: CIMNE and UPC.
- Rammelt, C.F., 2002. Strategies for implementation of drinking water supplies in Bangladesh. In *Development by Design (dyd02): 2nd International Conference on Open Collaborative Design of Sustainable Innovation*. Bangalore: ThinkCycle.