

JULIE METTA

Post Doctoral Researcher - Faculty of Economics, Tilburg University, The Netherlands

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Education & academic past positions

Ph.D. Doctorate – Circular Economy and Human aspects *Belgium 2019-2023*

Faculty of Economics – KU Leuven

Supervisors: Dr Kris Bachus & Prof. Sandra Rousseau

Visiting researcher, Polytechnique University of Montreal, *Canada, Autumn 2022*

Montréal, *invited by Prof. Sophie Bernard*

Visiting researcher, ifo, Leibniz Institute for Economic Research, LMU, *Germany, Spring 2019*

Munich, *invited by Prof. Karen Pittel*

Research Assistant, City University of Hong Kong *Hong Kong SAR, 2017-2019*

Hong Kong, *Prof. Lin Zhang*

M.Sc. Climate and Energy Engineering, INSA Strasbourg *France 2014*

Visiting student, ENSA Tanger, Ecole National des Sciences Appliquées, *Morocco, Summer 2013*

Tanger, *Invited by Prof. Lofti Chraïbi*

B.Sc. Climate and Energy Engineering INSA Strasbourg *France 2012*

Academic Publications

“**Challenging conventional narratives on trade unions' attitudes towards decarbonisation - a case-based analysis**” with A. Guisset, T. Van Overbeke, K. Bachus, K. Lenaerts, June 2024 - *Négociations* – Accepted

“**Socio-economic and resource effects of a circular value chain for clothing**” with S. Rousseau, K. Bachus. Forthcoming, *Ecological Economics* – Accepted with Minor Revisions

“**Make it a circular city: experiences and challenges from European cities striving for sustainability through promoting circular making**” with A. Coskun, Y. Bakırhoğlu, D. Çay & K. Bachus, 2022, *Resources, Conservation & Recycling* DOI: 10.1016/j.resconrec.2022.106495

“**Circular Makerspaces as entrepreneurship platforms for smart and sustainable cities**” with N. Premyanov, M. Angelidou, N. Tsoniotis, C. Politis, E. R. Athanasiadou & A. C. Tsolakis, 2022, Conference proceeding SpliTech DOI: 10.23919/SpliTech55088.2022.9854289

“**Potentials and opportunities towards the low carbon technologies – From literature review to new classification**” with Y. An, H. Zheng, L. Zhang, 2019 *Critical Reviews in Environmental Science and Technology* DOI: 10.1080/10643389.2019.1642834

Policy Reports

Building capacities and strategies of trade union involvement in shaping a just transition towards a sustainable and decarbonised industry, with A. Guisset, Y. Vereycken, T. Van Overbeke, K. Bachus, R. Hofgärtner, K. Lenaerts & L. Meylemans, 2022, *IndustriALL*, [Link](#)

“**Thinking beyond borders to achieve social justice in a global circular economy**”, with Y. Lembachar, J. Marsden, A. von Schwerdtner, K. Bachus, 2022, *Circle Economy* - [Link](#)

“**Fiscal treatment and market trends of pickup trucks in Belgium**” with R. Hofgärtner, K. Bachus, 2022, Leuven: HIVA. [Link](#)

“**Putting circular textile into work – The employment potential of circular clothing in the Netherlands**”, with N. Papú Carrone, L. Sosa Lagunes, H. Van Duijn, J. Wilting, T. Goesaert, K. Bachus, 2021, *Circle Economy* - [Link](#).

“**Mapping the circular maker movement: from a literature review to a circular maker passport (Deliverable 2.1.)**” with K. Bachus, 2020, Leuven: Pop-Machina project 821479 – H2020 - [Link](#).

Work submitted

- “Circular makerspaces as alternative employment platforms for circular jobs” with A. C. Tsolakis, A. Coskun, R. Hofgärtner, A. Schmidt (**Under Review** - Available upon request)
- “Discount scheme as nudge strategy to enhance environmental behaviour” with S. Rousseau (**Under Review** - Available upon request)
- “Impacts of the human capital in circular economy on sustainable growth” – with S. Rousseau & L. Zhang, (**Under Review** - Available upon request)
- “Managing Municipal Solid Waste with low citizen involvement : the case of Hong Kong” – with C. Metta-Versmessen (**Under Review** - Available upon request)
- “The Just Transition and Circular Economy in (renewable) energy systems: Concepts, Implications and Involved Parties” with A. Trueworthy, I. Withouck, M. Kumar & N. Isaksson. (**Under Review** - Available upon request)
- “An agent-based model for evaluating strategies to minimise tourist transport emissions in island environments: A case study of Guadeloupe” with C. Doncescu & S. Regis (**Under Review** - Available upon request)

Work in progress

- “Integrating material intensity into CGE models: Assessing the effects of EU Green Deal policies on world resources management & climate change” with C. Brink, R. Gerlagh, E. Lorang & X. Li (upon request)
- “Mobility Gini: distributional effects of transportation policies” with A. Rangel Guevara & A. Pommeret (upon request)
- “Trade and Circular Economy: labour allocations and geopolitical tensions” with S. Bernard (upon request)
- “Labour in the Circular Economy: a catalyst towards sustainable growth” Single author (upon request)
- “Gender bias in Circular Economy awareness and actions” with S. DeWitte & L. Thil (upon request)
- “Gender unbalanced recognition in Circular Economy” with Max Quirke (upon request)

Research Projects

- UnaVEx** - Virtual exchange for high-quality sustainability education *Belgium 2024-Present*
Senior Research Associate – Una Europa Projects between EU & African Univ.
- Circomod** - Circular Economy Modelling for Climate Change Mitigation *Netherlands 2023-Present*
Post-doctoral Researcher – Horizon Europe project n° 101056868 (2022-2026)
- Leuven Institute of Mobility** *Belgium 2021-Present*
Researcher –KU Leuven
- Scarcylet** - Material scarcity and recycling in the energy transition *France 2021-Present*
Researcher –French ANR-21-CE03-0012 (2021-2025)
- Building Capacities and Strategies of Trade Union Involvement in shaping a Just Transition towards a Sustainable and Decarbonised Industry** *Belgium 2020-2022*
Researcher - IndustriALL
- Putting circular textile into work – The employment potential of circular clothing in the Netherlands** *Netherlands 2020-2021*
Researcher – The Circle Economy
- Pop-Machina** - Circular Maker Movement *Belgium 2019-2024*
Coordinator member - H2020 Project n° 821479 (2019-2023)
- Circular Economy – Modelling economic impacts of waste valorisation** *Hong Kong, China 2017-2019*
School of Energy and Environment - The City University of Hong Kong

Grants & Awards

- Visiting Scholar grant, CAD 6,000 Mitacs, Montreal University 2022
- Visiting Scholar grant, EUR 1,200 ASL, KU Leuven 2022
- ANR Scarcylet: EUR 570,000 Scarcity and recycling of materials for the energy transition 2021-2024
- PhD full Fellowship, EU H2020 Pop-Machina, KU Leuven, Belgium 2019-2023
- Outstanding Academic Performance Award The City University of Hong Kong 2018

Conferences/Seminars/Workshops Experiences

Invited presentations:

2023: Tilburg University, Scarcyclet ANR, CIRANO, CIREQ, Paris Dauphine

2022: Scarcyclet ANR, LIAS workshop, RRECQ, HEC, McGill, Polytechnique Montréal, Udm

2021: Michelle SBO project, University of Warsaw, IndustriALL

Peer-reviewed conferences:

2024: EAERE, SURED, DAERE, AFSE, FAERE

2023: EAERE, AFSE, FAERE, JMA, BEED

2022: EAERE, AFSE, WUR, IAERE, FAERE, CANSEE, XAERNA, BEED

2021: EAERE, WCNRM, FAERE, FAERE workshop,

2020: FAERE, BEED

2019: FAERE

2018: WCERE

Summer schools: Ecolab Economic Foundations for Energy and Climate Policies (2021), KUL ECORES Summer School on 'Social behaviour and public policy' (2022), EAERE-ETH European Winter School (2023)

Teaching Experiences

Teaching Assistant , Tilburg University Writing skills for policy makers, Graduate program in economics, <i>Prof. Bas van Groezen</i>	2024
Teaching Assistant , KU Leuven Dynamic Methods, Advanced graduate program in economics, <i>Prof. Edoardo Ciscato</i> Environmental Economics, Graduate program in economics, <i>Prof. Sareh Vosooghi</i>	2021-2023
Guest Lecture , McGill, Montréal Seminar series, Graduate program in Economics , <i>Prof. Hassan Benchekroun</i>	2022
Guest Lecture , HEC, Montréal Seminar series, Graduate program in Economics - joint with McGill-Concordia-UdM, <i>Prof. Emmanuel Raufflet</i>	2022
Guest Lecture , SciencePo. Circular Economy: towards sustainable supply chains, Graduate program in Global Energy Transition and Governance, <i>Prof. Gilles Lepesant</i>	2020-2024
Guest Lecture , KU Leuven Sustainable management, Graduate program in Business Administration, <i>Prof. Sandra Rousseau</i>	2021-2022
Guest Lecture , University Libre de Bruxelles (ULB) Indepth Issues in Ecological Economics, Graduate program in Environmental Science&Management, <i>Prof. Tom Bauler</i>	2020
Guest Lecture , University of Rouen Exploring Economics : Circular Economy, Graduate seminar, <i>Prof. Olivier Beaumais</i>	2019
Guest Lecture , University of Montreal/EDDEC Institute Circular Economy Summer School, Graduate summer school, <i>Prof. Emmanuel Raufflet</i>	2018-2021
Teaching Assistant , Arizona State University & City University of Hong Kong Urban Sustainability in Hong Kong, Graduate summer school in Energy and Environment Policy, <i>Prof. Rob Melnick</i>	2018-2019
Teaching Assistant , City University of Hong Kong Scientific Writing and Communication, Graduate program in Energy and Environment, <i>Prof. Peter Brimblecombe</i>	2019
Guest Lecture , Hong Kong Baptist University Environmental Energy Economics, Undergraduate program in Government International Studies, <i>Prof. Emilie Tran</i>	2019

Administrative responsibilities & service to the profession

Organizer: Workshop on CE economic modelling (Leuven, 2024) - [Link](#)

Coordinator: Pop-Machina Project (2020-2023)

Member: EAERE sustainability committee (2022-Present), RRECQ (2022-Present)

Elected representative: Graduates (INSA 2012-2014), PhDs (CityU 2017-2019), Employees (HIVA 2020-2022)

Referee services: Resource, Conservation & Recycling; Circular Economy & Sustainability, City & Environment Interactions

Master student supervisions – graduated- *Currently 3 Master Students are being supervised*

Faculty of Economics and Business 2021/2022

Public awareness of circular economy regulation in Europe (Dominik Bammer) - Cum Laude

Policy Evaluation of Circular Economy Regulations in Europe (Femke De Keyser) - Cum Laude

Faculty of Industrial Engineering Sciences 2021/2022

Towards sustainable energy and material uses for decent housing in Tanzania (Mathilde De Strooper) - Cum Laude

Employment Records

Post- Doctoral Researcher – TiSEM, Tilburg University *The Netherlands 2023-Present*
Developing CGE models integrating material balances in Python
Teaching and supervising students

Senior Research Associate – HIVA, KU Leuven *Belgium 2019-Present*
•Policy projects
•Prospection

Teaching Assistant - City University of Hong Kong *Hong Kong 2017-2019*
•Urban Sustainability in Hong Kong joint course with Arizona State University
•Writing Academics

Scientific Officer - Consulate General of France in Hong Kong&Macau *Hong Kong 2015-2017*
•Promote France-Hong Kong scientific partnerships
•Creation and management of the consulate's science events (+300 events)
•Scientific watch over France and Hong Kong (+400 articles)

New Energy Project Research Engineer - COFELY Services (GDF SUEZ) *France 2014*
•Analyse and answer tenders
•Feasibility study and designing of water storage systems

Miscellaneous

Language **French:** mother tongue **German:** intermediate B1 Level
 English: bilingual C2 Level **Dutch:** A2 Level
 Spanish: intermediate B1 Level **Chinese (PuTongHua) & Cantonese:** A1 Level

Software & Cie Python, Stata, Eviews, Matlab, GAMS, Mathematica, R, Julia, Latex, html/css/php, Git, Inkscape, PléiadesComfie, AutoCad, Canva, Miro Board, Microsoft & Google Suites, Teleconference & Chat softwares

Soft Skills: Project management, Stakeholder management, Networking, Presentation skills, Leadership

Volunteering

Labdoo.org – Co-Manager Hong Kong & Belgium Hub *Hong Kong, Leuven Since 2017*
Collect, sanitize and provide 2nd hand computers to communities in needs

Sous Les Dechets La Plage – Co-founder *Hong Kong 2017-2020*
Organization of beach clean-ups with plastic recycled locally

MakeSense - Co-Manager Hong Kong Hub on Waste *Hong Kong Since 2016*
Event organization for social entrepreneur

Impact HK - Volunteer *Hong Kong Since 2016*
Food distribution for homeless people

Surfrider Foundation - Volunteer *France & Hong Kong Since 2011*
Donating and volunteering in this environmental association

References

Prof. Sandra Rousseau, PhD
Full Professor, Cedon - Center for Economics
& Corporate Sustainability
KU Leuven, Belgium
sandra.rousseau@kuleuven.be

Prof. Kris Bachus, PhD
Full Professor, Department of Sociology
U Antwerpen, Belgium
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Prof. Aude Pommeret, PhD
Full Professor, IREGE - Institute for Research in
Management and Economics
University Savoie-Mont Blanc, France
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More references available upon request

Prof. Sophie Bernard, PhD
Full Professor, Department of Mathematical
& Industrial Engineering
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Prof. Aykut Coşkun, PhD
Full Professor, Department of Media and Visual Arts
Koç University, Istanbul
aykutcoskun@ku.edu.tr

Prof. Gilles Lepasant, PhD
Full Professor, Geography & Energy
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