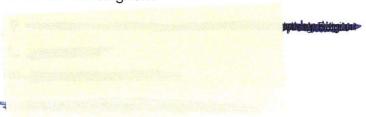
PERSONAL INFORMATION

Inka Vanwonterghem



TECO Mobility Grant Application

WORK EXPERIENCE

February 2018 - current

Senior Engineer (postdoctoral level)

Centre for Microbial Ecology and Technology (CMET), Ghent University, Belgium

- Optimization of electrochemical disinfection unit for decentralised treatment of septic tank effluent
- Grant proposal writing

July - December 2017

Research Associate

Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Belgium

- Quantitative mapping of Food Systems Research (EC Food 2030)
- Science communication Practical guidelines for the application of windbreaks as emission mitigation strategy
- Modelling Flow of antibiotic residues from livestock to ground- and surface waters (EC Life+)

August - October 2016

Tutor - Biochemistry

Murdoch University, Australia

· Practicals for Bachelor students

July 2015 - May 2016

Postdoctoral Research Fellow

Australian Centre for Ecogenomics, University of Queensland, Australia

- Comparative metabolic and phylogenomic analyses of novel microorganisms
- Development of microbial genomics course

April - July 2015

Research Assistant

Australian Centre for Ecogenomics, University of Queensland, Australia

Microbial data analysis from thawing permafrost soils and carbon flux analysis

September 2011 - March 2015

PhD Thesis

Advanced Water Management Centre, University of Queensland, Australia

- Biotechnological solutions to Australia's transport, energy and greenhouse gas challenges
- Microbial community dynamics, functions and interactions in anaerobic digestion
- Laboratory work, reactor operation, field work, data analyses, statistics, bioinformatics

September 2010 - June 2011

Master Thesis

Centre for Microbial Ecology and Technology (CMET), Ghent University, Belgium

· Microbial interactions and metabolic networking in a methanotrophic community



Curriculum Vitae

Replace with First name(s) Surname(s)

July - August 2010

Research Assistant

Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Belgium

* Indoor air quality, emissions and ventilation in livestock

August 2009

Research Assistant

Centre for Microbial Ecology and Technology (CMET), Ghent University, Belgium

Laboratory work

July 2009

Internship

Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Belgium

• Evaluation of biological and chemical air scrubbers for emission mitigation in intensive livestock

Sectors Environmental Engineering, Environmental Science, Anaerobic digestion, Waste(water) management, Microbial Ecology, Molecular Biology, Metagenomics, Agricultural Research, Food Research

EDUCATION AND TRAINING

September 2011 - June 2015

PhD Thesis in Chemical Engineering

University of Queensland, Australia

Dean's Award for Outstanding Research Higher Degree Thesis

September 2009 - June 2011

Master in Environmental Engineering

Ghent University, Belgium

Graduated with highest distinction

September 2006 - June 2009

Bachelor in Bioscience Engineering

Ghent University, Belgium

Graduated with highest distinction

PERSONAL SKILLS

Mother tongue(s)

Dutch

Other language(s)

Consulting skills

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	, ,
C2	C2	C2	C2	C2
B1	B2	B1	B1	. B1

English

French

Molecular microbiology data analysis and interpretation

Tutoring/mentoring skills

- Tutoring Biochemistry, Microbial Genomics, Cell Structure & Function, and Principles of Biological Engineering practicals for Bachelore students
- Mentoring PhD students



Digital skills

	SELF-ASSESSMENT						
Information processing	Communication	Content creation	Safety	Problem solving			
Proficient	Proficient	Proficient	Independent	Independent			

good command of Microsoft Office, Illustrator, inkscape, statistical computing language R, Linux

Other skills

Experience in nature/wildlife conservation through volunteering (2016-2017)

- Camivore & Elephant Research & Conservation; Animal Sanctuary, N/a'an ku sê, Namibia
- Rhino Research & Conservation, Ziwa Rhino Sanctuary, Uganda
- Turtle Research & Conservation, Marine Conservation Society, Seychelles
- . Dolphin Research & Conservation, Department of Parks & Wildlife, Australia
- · Animal carer, Lone Pine Koala Sanctuary, Australia

Driving licence

В

ADDITIONAL INFORMATION

Publications

- Inka Vanwonterghem, Paul N Evans, Donovan H Parks, Paul D Jensen, Ben J Woodcroft, Philip Hugenholtz and Gene W Tyson (2016) Methylotrophic methanogenesis discovered in the archaeal phylum Verstraetearchaeota. Nature Microbiology, 1(16170)
- Inka Vanwonterghem, Paul D Jensen, Komeel Rabaey and Gene W Tyson (2016) Genome-centric resolution of microbial diversity, metabolism and interactions in anaerobic digestion. Environmental Microbiology, 18(9):3144-3158
- Inka Vanwonterghem, Paul D Jensen, Komeel Rabaey and Gene W Tyson (2015) Temperature and solids retention time control microbial population dynamics and volatile fatty acids production in replicated anaerobic digesters. Scientific Reports, 5:1-8
- Inka Vanwonterghem, Paul D Jensen, Paul G Dennis, Philip Hugenholtz, Komeel Rabaey and Gene W Tyson (2014) Deterministic processes guide long-term synchronized population dynamics in replicate anaerobic digesters. The ISME Journal, 8:2015-2028
- Inka Vanwonterghem, Paul D Jensen, Dang P Ho, Damien J Batstone and Gene W Tyson (2014)
 Linking microbial community structure, interactions and function in anaerobic digesters using new molecular techniques. Current Opinion in Biotechnology, 27:55-64
- Mukan Ji, Chris Greening, Inka Vanwonterghem, Carlo Carere, Matthew Scott, Ian Snape, Philip Hugenholtz and Belinda Ferrari (2017) Atmospheric trace gasses drive primary production in an Antarctic desert ecosystem. Nature Microbiology, 552;400-403
- David W Waite, Inka Vanwonterghem, Christian Rinke, Donovan H Parks, Ying Zhang, Ken Takai, Stefan M Sievert, Jörg Simon, Barbara J Campbell, Thomas E Hanson, Tanja Woyke, Martin G Klotz and Phillip Hugenholtz (2017) Comparative genomic analysis of the class Epsilonproteobacteria and proposed reclassification to Epsilonbacteraeota (phyl. nov.). Frontiers in Microbiology, 8(682):1-19
- Paul G Dennis, Bernardino Virdis, Inka Vanwonterghem, Alif Hassan, Philip Hugenholtz, Gene W Tyson and Korneel Rabaey (2016) Anode potential influences the structure and function of anodic electrode and electrolyte-associated microbiomes. Scientific Reports. 6:39114
- Nurdyana Abdul Rahman, Donovan H. Parks, Inka Vanwonterghem, Mark Morrison, Gene W. Tyson, Philip Hugenholtz (2015) A phylogenomic analysis of the bacterial phylum Fibrobacteres. Frontiers in Microbiology, 6:1469
- Sunil A Patil, Jan B Arends, Inka Vanwonterghem, Jarne van Meerbergen, Kun Guo, Gene W Tyson and Komeel Rabaey (2015) Selective enrichment establishes a stable performing community for microbial electrosynthesis of acetate from CO2. Environmental Science & Technology, 49(14): 8833-8843
- De Vrieze J, Gildemyn S, Arends JB, Vanwonterghem I, Verbeken K, Boon N, Verstraete W, Tyson GW, Hennebel T and Rabaey K (2014) Biomass retention on electrodes rather than electrical current enhances stability in anaerobic digestion. Water Research, 54:211-221
- Florent E Angly, Paul G Dennis, Adam Skarshewski, Inka Vanwonterghem, Philip Hugenholtz and Gene W Tyson (2014) CopyRighter: a rapid tool for improving the accuracy of microbial community profiles through lineage-specific gene copy number correction. Microbiome, 2(11):1-13



Presentations

- Oral presentation, National Seminar for EC Joint Programming Initiatives, Brussels 2017 (Belgium)
- Oral presentation, Australian Society for Microbiology Conference, Perth 2016 (Australia)
- Oral presentation, PhD defence seminar, University of Queensland, Brisbane 2015 (Australia)
- Poster presentation, International Society for Microbial Ecology Conference, Seoul 2014 (South-Korea)
- Poster presentation, American Society for Microbiology General Meeting, Boston 2014 (US)
- Oral presentation, Biofuels Cluster Symposium, Commonwealth Scientific and Industrial Research Organization, Canberra 2012, Brisbane 2013, Canberra 2014 (Australia)
- Poster presentation, Microbial Resource Management in Biotechnology Symposium, Ghent 2011 (Belgium)

Honours and awards

- Dean's Award for Outstanding Research Higher Degree Thesis, UQ Graduate School, 2015
- Travel Award, American Society for Microbiology, 2014
- Best Presentation Award, Postgraduate Engineering Conference, 2013
- University of Queensland International Scholarship, 2011
- Fundamental Research Flanders Scholarship, 2011