

Curriculum Vitae

Glattbrugg, 04-01-2022

Name Michel Elia Riechmann
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Date of Birth 13.03.1988
Nationality German

EDUCATION

2009 – 2013 B.Sc. in Environmental Engineering
Bauhaus Universität Weimar 2011/12 Exchange semester Universidad de Salamanca (Salamanca, Spain)
2012/13 Fellow of the 'Bauhaus Stipendium'
Thesis: «Technische Evaluierung einer Trockentrenntoilette am Beispiel der iPiT»

2013 – 2017 M.Sc. in Environmental Engineering
Bauhaus Universität Weimar 2015 Exchange semester Universitat Politècnica de Catalunya (Barcelona, Spain)
Thesis: "Ermittlung notwendiger Rahmenbedingungen, Tauglichkeitsprüfung und Alternativenvergleich von Urinbehandlungsverfahren in Bezug auf eine mobile Ausführung"
Award for best Master thesis of the year and university (section Civil Engineering)

PROFESSIONAL EXPERIENCE

2012 MoMo Project
Bauhaus Universität Weimar (as one partner) Working and researching within an integrated water resource management project in Mongolia. Focus on sustainable sanitation in slum areas of Darkhan (six weeks).

2013 Border cities
Bauhaus-Universität Weimar/ UC San Diego Workshop in San Diego and Tijuana regarding border issues with special focus on environmental problems (interdisciplinary project with engineers, urban planners and artists (two weeks).

2014 Internship at DBFZ
Deutsches Biomasseforschungszentrum Leipzig Working in research and CAD illustration of a mobile synthetic gas purification plant within the project KatASyn (six months).

2014 – 2017 P-Bank
Self-initiated project/ Start-up hub neudeli (BUW) Interdisciplinary project in collaboration with two product designers. Redefinition of public toilet facilities into phosphorus donation centers as a way to implement sustainable sanitation.

2017 – ongoing Guest lecturer
Bauhaus-Universität Weimar Teaching a seminar for the advanced master's program „Wasser & Umwelt“, presence block course WW92: „Neuartige Sanitärsysteme“ (every 2 years)

2017 – ongoing Blue Diversion Autarky
Eawag Employment as a scientific assistant for the development of a decentralized off-grid wastewater treatment concept. Coordination and performing of field tests in Switzerland and South Africa. Supervision of interns, student projects and scientific assistants.

CONFERENCES/ PRESENTATIONS

2018 Guest Seminar
University of Khartoum Presentation on new developments in sustainable sanitation in Khartoum, Sudan

2018 Reinvent The Toilet Challenge
Reinvented Toilet Expo Exhibition of full-scale prototypes of the Blue Diversion Autarky Toilet in Beijing, China

2019 FSM5 & AfricaSan5
5th International Faecal Sludge Management Conference Exhibition booth: Presentation of the Blue Diversion Autarky model and poster in Cape Town, South Africa

2019 IPW9
9th International Phosphorus Workshop Conference presentation at the IPW9 in Zurich, Switzerland

2019 Inauguration P-Bank
Bauhaus-Universität Weimar Presentation of the Autarky urine treatment system in Weimar, Germany

2021 Rich Earth Summit
Rich Earth Institute Conference presentation (online conference)

PROFESSIONAL EXCHANGE

- 2020 – ongoing DWA Fachausschuss
Deutsche Vereinigung für Wasser, Abwasser und Abfall Work in the expert group KA-1.1 „Technik und Bemessung ressourcen-orientierter Sanitärsysteme“
- 2020 – ongoing VSA Young Professionals
Verband Schweizer Abwasser- und Gewässerschutzfachleute Exchange with other young Swiss water professionals
- 2020 – ongoing VaLoo
Participation in the formation of a Swiss umbrella organization for sustainable sanitation

LANGUAGE SKILLS German, English fluent
Spanish intermediate
French basic

COMPUTER SKILLS Microsoft Office Suite
CAD – Solid Edge // Solidworks
LCA – SimaPro
Decision-making tool – Mives
GIS – QGIS // ArcGIS

OTHER QUALIFICATIONS EU driver's license B, BE (car + trailer)
Lifeguard license DLRG silver
Sportküstenschiffahrtsschein (eq. Yacht master certificate)

EXTRACURRICULAR ACTIVITIES Traveling, sailing, canoeing, 3D printing, juggling, swimming,
Leading environmental education youth camps

PUBLICATIONS **Riechmann, M. E.**, Ndwandwe, B., Greenwood, E., Reynaert, E., Morgenroth, E., Udert, K. M., (2021). *On-site urine treatment combining Ca (OH) 2 dissolution and dehydration with ambient air*. Wat Res X, 13, 100124.

Larsen, T. A., **Riechmann, M. E.**, Udert, K. M., (2021). *State of the art of urine treatment technologies: A critical review*. Wat Res X. 13, 100114

Sutherland, C., Reynaert, E., Sindall, R. C., **Riechmann, M. E.**, Magwaza, F., Lienert, J., Buthelezi, S., Khumalo, D., Dhlamini, S., Morgenroth E. & Udert, K. M. (2021). *Innovation for improved hand hygiene: Field testing the Autarky handwashing station in collaboration with informal settlement residents in Durban, South Africa*. Sci. Total Environ, 796, 149024.

Sutherland, C., Reynaert, E., Dhlamini, S., Magwaza, F., Lienert, J., **Riechmann, M. E.**, Buthelezi, S., Khumalo, D., Morgenroth, M. & Udert, K. M. & Sindall, R. C. (2021). *Socio-technical analysis of a sanitation innovation in a peri-urban household in Durban, South Africa*. Sci. Total Environ, 755, 143284.

Reynaert, E., Greenwood, E. E., Ndwandwe, B., **Riechmann, M. E.**, Sindall, R. C., Udert, K. M. & Morgenroth, E. (2020). *Practical implementation of true on-site water recycling systems for hand washing and toilet flushing*. Wat Res X, 7, 100051.

Fritsch, D., Görmer, M., **Riechmann, M. E.**, Heldt, N. & Schlüter, M. (2015). *The US-Mexican Border – Viewpoints of Environmental Engineering Students* in Bachuber, Liz (Ed.) 2015. Border City – Chapter 1. Bauhaus-Universitätsverlag Weimar. ISBN 978-3-95773-202-6