

Dr. Kenza Benabderrazik

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Education

From September 2016 to June 2020	Dr. Sc. in the Sustainable Agroecosystems Group (SAE) ETH Zürich (ETHZ) Department of Environmental System Sciences (D-USYS)	Switzerland, Morocco, Ghana
	Thesis title: Operationalizing resilience in face of climate change The case of tomato producers in Morocco and Ghana	
Fall 2017	Visiting researcher in the System Dynamics Group University of Bergen - Department of Geography	Norway
From 2006 to 2012	M.Sc. and B.Sc. in Environmental Sciences and Engineering Swiss Federal Institute of Technology - Lausanne (EPFL) Specialization in Environmental Chemistry and bioprocess engineering	Switzerland

Work Experience

Since July 2020	Post-Doc - Lecturer and outreach project coordinator – Sustainable Agroecosystems Group - D-USYS – ETHZ Content development and implementation of teaching material for graduate and undergraduate level on various topics related to Agricultural and Food Systems, ecosystems managements, agroecology and resilience. Project management for scientific communication, coordination of art-science projects to open and foster dialogues between artists, scientists and various actors of the food systems towards agroecological transitions	Switzerland
From 2016 to 2018	Research and field assistant – ETHZ in collaboration with the KNUST (Kumasi, Ghana) and the EIAR (Debre Zeit, Ethiopia) Project: Assessing and Enhancing the Resilience of the Teff and Cocoa value chain (AETRTCvc) Funding: Coop World Food System Grant Multiple field trips to organize and facilitate stakeholder workshops in Ghana and Ethiopia. Conducting and managing a data collection (>800 interviews) in Ethiopia.	Ghana and Ethiopia
From 2012 to 2016	Environmental Consultant for KBEE and SOFIES Consultancy work in the field of environmental impact assessment, circular economy, waste management and resource efficiency <ul style="list-style-type: none">Establishment of a Public-Private Partnership in seawater desalination and irrigation-Environmental ExpertTunisian Cleaner Production Project: capacity building of the National Cleaner Production Centre (NCPC) – International consultant for LCA and Water footprintDevelopment of the Guidelines process for the National Resource Efficiency Program for industrial stakeholders in Morocco (PNERI)Evaluation of climate change impacts in 2060 for the forests and agricultural sector of the Geneva agglomeration	Switzerland, Morocco, Gabon, Tunisia, Burkina Faso

4 months from 2011 to 2012	Town of Pully - Construction management and industrial services <i>Internship</i> - Development of the waste management city plan until 2025 Management of household wastes for a town of about 20,000 inhabitants. Analysis of the waste composition; identification and management of long-term solutions	Switzerland
2 months in 2011	ROI – Resources Optimization Initiative <i>Internship</i> - Assessing the socio-economic feasibility of wastewater recovery and biogas extraction for medium scale residential complexes in Bangalore, India	India
July 2008	OCP (Office Chérifienne du phosphate) - Environmental Department <i>Internship</i> – Assessing the carbon footprint of phosphate mines of one of the world's leading producer and exporter of phosphorus fertilizers	Morocco

Teaching experience

Spring 2023	Guest speaker on Food system Resilience & Agroecology – A tomato story Funky/fresh: Sound & Food with Dr. Jamie Allen in Fhnw Basel Workshop on Urban agro-ecology, islands of resistance & regeneration MAPS Symposium: A Foodculture Day in EDHEA Sierre Guest speaker on Art & Science Art & Ecology with Anne-Laure Franchette, Franklin University Lugano Guest speaker on Plant – Water – Soil Visualizing Foodways: Art + Food from Hemispheric Perspectives with Dr. Zoë Heyn-Jones at the Western University Canada	
Fall 2022	Guest Speaker on Agroecology - ETHZ CAS Development and Cooperation with Shruti Patel & NADEL Guest Speaker on Political Ecologies of Water – ETHZ Political Ecology of Food and Agriculture with Prof. Johanna Jacobi	
February 2021 & March 2022	Organizer and Lecturer “Designing for Food Systems Resilience: A Circular Approach” Content development and implementation of a short course for Food systems professionals with the WFSC	
Since Fall 2020	Main Lecturer at the Sustainable Agroecosystems Group – ETHZ: <ul style="list-style-type: none"> - Sustainable Agroecosystems I & II - Agroecologists without borders - Tropical Cropping systems, Soil and Livelihoods Content development and implementation of courses for agricultural & environmental sciences bachelors and masters' students. With Prof. Johan Six	
Fall 2021	Guest Speaker on Resilience – ETHZ Public lecture series on Agroecology and the Transition to Sustainable Food Systems organized by the WFSC	
December 2021	Guest speaker on “Decolonizing Nature. Knowledges, Practices and Questions” with Jose Cáceres Mardones - EDHEA MAPS in Theory and practice, The Valais School of Arts, Sion – Switzerland	
Summer 2019, 2021 & 2022	Guest speaker on Complex Systems & Agroecology – ETHZ World Food System Center Summer School – Food Systems in Transition	
Fall 2018 and 2019	Guest speaker on Food System Resilience - ETHZ Sustainable Agroecosystems II, for agricultural sciences Bachelors and environmental sciences Masters. With Prof. Johan Six, Dr. Anett Hofmann and Dr. Martin Hartmann.	
2013 and 2014	Trainer on Environmental impact Assessment methodologies – SOFIES OpenLCA software – Life Cycle Assessment (LCA) open-source software Ecoinvent – Ecoeditor software – Creating and compiling datasets Quantis Suite 2.0 software – LCA and Water Footprint software	

Fall 2010 and 2011 **Teaching Assistant – EPFL**
Teaching assistant for Bachelor courses of « Introduction to environmental engineering” and “GIS -Geographic Information System”

Invited Talks and Conference

- December 2022 **‘IMAGINE – Sustaining Climate Crisis (ISCC)’ of the Institute of Future Studies, Karachi – Pakistan**
Panel discussion on “Resilience & Food security, Climate-driven changes and its impacts”
- January 2022 **Tour de Lorraine – For a decolonial Ecology, Bern - Switzerland**
Intervention on political ecologies of the tomato food system in Morocco with Malcom Ferdinand, Claske Dijkema, Kenza Benabderrazik, Payal Parekh, Rony Emmenegger, Timo Righetti
- December 2021 **After Development Lectures – ERASME Centre d’Excellence Jean Monnet - France**
Intervention and Panel Discussion on “Political Ecologies of Food Systems” with Gabriella Villavicencio Valdez
- July 2021 **MEM Summer Summit, Università della Svizzera italiana, Lugano – Switzerland**
& August 2022 **Governance, Policy Making & Citizenship**
Lecture on Food Systems and Agroecology
- December 2019 **Forum Origin Diversity Territories, Lausanne – Switzerland.**
Public Plenary Intervention “Can agroecology mitigate climate change and feed the world? ”
Coordination and moderation of the workshop on “Biological processes and social networks in the agroecological transition: drivers for building resilience of farmers and territories”
- October 2019 **World Food System Center Symposium, Zurich – Switzerland.**
Poster presentation. Critical resilience and power relations in face of climate change – The case of the tomato value chain in Ghana
- July 2019 **37th International Conference of the System Dynamics Society, Albuquerque – USA.**
Plenary presentation and poster at the PhD Colloquium. How resilience and sustainability are indivisible in a country facing rapid environmental and socio-economic changes – The case of fresh tomato in Morocco
Presentation – When tomato production and climate change reinforce the poverty trap: The case of tomato smallholder producers in Ghana
- November 2018 **World Food System Center Symposium, Zurich – Switzerland.**
Poster presentation. Assessing tomato farmers’ resilience to market influences and climate change events – A comparative study between Morocco and Ghana
- September 2018 **Forum Origin Diversity Territories, Torino – Italy.**
Oral presentation. Analyzing the resilience of horticultural growers in a country facing rapid environmental and socio-economic changes, the case of fresh tomato in Morocco
- July 2018 **36th International Conference of the System Dynamics Society, Reykjavik – Iceland.**
Poster presentation, Exploring the dynamics related to exporters and domestic producers competing over a scarce natural resource – water; the case of fresh tomato in Morocco
- March 2016 **Seminar of the Mathematics Department, University Mohamed V, Rabat – Morocco –**
Oral presentation. Optimizing waste management in a swiss context
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Publications

- Doctoral Thesis **Benabderrazik K.** (2021) “Operationalizing resilience in the face of climate change. The case of tomato producers in Morocco and Ghana”, Doctoral Thesis, ETH Zürich Research Collection. <https://doi.org/10.3929/ethz-b-000477538>

Peer reviewed
articles

Benabderrazik K., Kopainsky B., Tazi L., Joerin, Six J. (2021) "How much longer can agricultural intensification defy water conservation? A Systemic modelling approach to the case of tomato producers in Morocco", Agricultural Water management Volume 256, 1 October 2021, 107082 <https://doi.org/10.1016/j.agwat.2021.107082>

Jacobi, J., Villavicencio Valdez, G.V. & **Benabderrazik, K.** (2021) "Towards political ecologies of food". Nature Food 2, 835–837. <https://doi.org/10.1038/s43016-021-00404-8>

Benabderrazik K., Kopainsky B., Monastyrnaya E., Thompson W., Tazi L., Joerin J., Six J (2022) "Climate resilience and the human-water dynamics. The case of tomato production in Morocco" Science of the Total Environment. <https://doi.org/10.1016/j.scitotenv.2022.157597>

Benabderrazik, K., L. Jeangros, B. Kopainsky, E. Dawoe, J. Joerin, and J. Six. (2022). "Addressing the resilience of tomato farmers in Ghana facing a double exposure from climate and market". Ecology and Society 27(3):26. <https://doi.org/10.5751/ES-13310-270326>

Jeangros L., **Benabderrazik K.**, Jacobi J., Krütli P., Six J. (2022) "Power and resilience – A critical approach to the tomato food system in the Upper East Region, Ghana" *Submitted, in revision*

Book chapter

Benabderrazik K. (2021) "Soil Silence". In: Gee, Gabriel N.; Franchette, Anne-Laure; Caceres Mardones, Jorge, eds., Mobile Soils. Zürich: TETI press. Pp. 111-118.

Unearthing Traces. Dismantling the imperialist dimensions of archives, landscapes and the built environment (2023) edited by Denise Bertschi, Julien Lafontaine Carboni, Nitin Bathla, With a joint contribution by VOLUMES and **Decolonize Zurich**.

Reports

Project reports – AERTCvc Project

Jonas Joerin, Evans Dawoe, Pius Kruetli, **Kenza Benabderrazik**, Samuel Hauenstein, Samuel Aning, Akosua Pomaa Asabere, Braida Thom, William Thompson, Kebebew Assefa, Johan Six (2018). Resilience of the Cocoa Value Chain in Ghana – Final report Zürich: ETH Zurich

Jonas Joerin, Kebebew Assefa, Pius Krütli, **Kenza Benabderrazik**, Samuel Hauenstein, Luzian Messmer, Tewodrus Lulseged, Evans Dawoe, Zerihun Tadele, Johan Six (2018). Resilience of the Tef Value Chain in Ethiopia – Final report Zürich: ETH Zurich - in Amharic

Newspaper and
blog articles

Newspaper article- Le Monde Libertaire

"Manger radicalement, où notre rôle de consommateur dans le système alimentaire." & "Opération résilience " Mensuel de la Fédération Anarchiste - Le Monde Libertaire n°1811. France

Blog article - Food system stories

"Tackling food system resilience: The case of Teff in Ethiopia" & "On field..." - Zürich, Switzerland. World Food System Center, ETHZ

Datasets

Dataset publication – Ecoinvent 3.0

Life Cycle – Environmental impact assessment data on Agricultural production in Tunisia
Palm date - EcoEditor 3.3.65.10694

Art-Science Activities

March, June 2022	Mobile Soils Dinners Serie – Transdisciplinary collaboration between ARVAE, the Food Culture Days, Teti Press and the SAE Greenhouse Lab
November 2021	"Helvetia & the Journey of a Cocoa Bean", Art-Science Exhibition & Panel discussion on "The role of socially engaged Art-Science dialogue for agroecological Transition" in the SAE Greenhouse Lab - Zürich – Switzerland
June 2021	"Same things make us laugh, make us cry", Art Exhibition , Zürich - Switzerland With the Body Archive Project in the SAE Greenhouse Lab
June 2021	AIR-WASTE-HEALTH-WATER-ENERGY-SOIL, Gleis 70 , Zürich - Switzerland Guest speaker at Laser Leonardo Art-Science Talk Food Culture Days – Biennale on Ecology, Art & Society , Vevey – Switzerland. Facilitator of a dialogue on "Biodiversity loss, What's on the tip of our tongues?"
April 2019	Art-Sci Exhibition - ETHZ , Zürich - Switzerland "On field" – Photo and audio installation on research experience on field - Won Public Prize

Science Communication

Since 2021	Edible Research goes Storytelling: Participative design of an interactive art-science exhibition on food value chains – Switzerland Project coordination and elaboration of an art-science installation with an interdisciplinary team in several locations in Switzerland.
September 2021	Scientifica Exhibition , Zürich - Switzerland Installation on Circular Economy in Food Systems and Nutrient recycling within the World Food System Center and ETH4D space
October 2018	OLMA – ETHZ Scientific outreach , Saint-Gallen - Switzerland Participation in the elaboration of a set of 5 videos and a platform on the "Resilience of Teff value Chain in Ethiopia"

Student Supervision

Spring 2022	Bachelor Thesis – ETHZ Saskia Lichtin – "Design of a science didactic tool for plant nutrition and circularity"
Fall 2019 and Spring 2020	Master Thesis - ETHZ Laurence Jeangros – "Power relations, agriculture policies and climate change within the tomato food system in the Upper East Region, Ghana"

Grants and Scholarships

2020-2022	Edible research goes storytelling: Participative design of an interactive art-science exhibition on food value chains – Swiss national Science foundation - AGORA Grant
2022	Mobile Soils Dinners Serie – Transdisciplinary collaboration between ARVAE, the Food Culture Days, Teti Press and the SAE Greenhouse Lab - Pro Helvetia
2016-2019	Swiss Government Excellence Scholarship for Doctoral research Federal Commission for Scholarships for Foreign Students (FCS)
2019 & 2021	Mercator Ambassador Grant – World Food System Centre "On field..." & "Helvetia & the journey of a Cocoa Bean"- Art-Science Exhibition
2011	Mobility Grant for an engineering internship in India Association "Ingénieurs du Monde" – EPFL & UNIL

Languages

French - Arabic dialect, Moroccan -
Mother tongue (C2)

English – Fluent (C1)

Spanish – Professional competencies (B2)

Modern standard Arabic - Limited
professional competencies (B1)

German – Basic notions (A2-B1)

Technical skills

IT tools Simapro v.8, OpenLCA, Quantis Suite 2.0, Ecoeditor
Matlab, R, Manifold, ArcGIS, Vensim Pro

Associative Member of the Collective "Decolonize Zürich"
involvement Member of "Agroecologyworks !"
ent Member of the World Food System Centre Alumni Network
Member of the Abdelhadi Tazi Foundation- Morocco

Last updated – April 2023