

CURRICULUM VITAE

PERSONAL INFORMATION

Teresa González de Chávez Capilla

Institute of Geography (GIUB),
University of Bern, Hallerstrasse 12, 3012 BERN-CH.
+41(0)31 631 85 57, teresa.gonzalez@giub.unibe.ch

ORCID: [0000-0002-8666-5518](https://orcid.org/0000-0002-8666-5518)

Twitter: <https://twitter.com/DrChavezCapilla>

Languages: Spanish (native), English (C2), French (B2), German (A2), Italian (A2)

EDUCATION

- 11/04/2018 **PhD in Applied Science**, Institute for Applied Ecology (IAE), University of Canberra (UC, Australia)
Supervisors: Prof Simon Foster, Prof William Maher, Prof Tamsin Kelly
Title: *The metabolism of arsenic in humans: bioaccessibility in the gastrointestinal tract, diffusion across lipid membranes and biotransformations in liver cells*
- 11/11/2011 **MSc in Inorganic Chemistry and Chemical Engineering**
National University for Distance Education (UNED), Madrid, Spain
Title: *Synthesis and characterization of metal oxides for supercapacitors*
Final grade: 9/10
- 30/09/2009 **Licentiate's degree (BSc + MSc) in Chemistry**, Autonomous University of Madrid (UAM), Spain
Final grade: 8.23/10
- 30/06/2008 **Erasmus Academic Exchange**, University of Sussex, Brighton, UK

EMPLOYMENT HISTORY

- 01/03/2022 – **Research Associate/Lecturer**
(Interim Head of the Chemistry Laboratory and Lecturer in Laboratory Methods)
Institute of Geography (GIUB), University of Bern, Switzerland
- 01/05/2019 – **Postdoctoral Fellow**, GIUB, University of Bern, Switzerland
28/02/2022
Advisor: Prof Adrien Mestrot
- 01/12/2017 – **Research Fellow**, MyHealthTest Pty Ltd and UC, Australia
30/11/2018
Advisor: Prof Simon Foster
- 15/04/2013 – **Doctoral Researcher**, IAE, UC (Australia)
21/07/2017
Advisors: Prof Simon Foster, Prof William Maher, Prof Tamsin Kelly
- 02/11/2009 – **Predocctoral Researcher**, Institute IMDEA Energy, Madrid, Spain
20/07/2012
Advisors: Dr Raúl Díaz, Dr Jesús Palma del Val, Prof Marc Anderson
- 01/09/2008 – **Collaboration Fellow**, Department of Chemistry, UAM, Spain
30/06/2009
Advisor: Prof Manuel Alcamí Pertejo

APPROVED RESEARCH FUNDING

- | | | |
|-------------------|--|------------------------------|
| 01/2021 – 12/2021 | Seal of Excellence Fund (University of Bern) | CHF 59,600 |
| 06/2020 | Berne University Research Foundation | CHF 1,400 |
| 04/2013 – 04/2016 | <i>Arsenic Metabolism and Toxicology in Humans</i>
funded by the W.J. Weeden Postgraduate Scholarship (UC) | AUD 176,074
(CHF 113,975) |
| 02/2013 – 02/2016 | <i>Enhancement and Detection of Fingermarks on Non-Porous Surfaces using Functionalised and Organic Upconverting Nanoparticles</i>
funded by the University of Technology Sydney President and International Research Scholarships (UTSP and UTS IRS)
(I declined this grant to accept the W.J. Weeden Postgraduate Scholarship) | AUD 158,979
(CHF 102,909) |

PRIZES, AWARDS AND FELLOWSHIPS**Competitive**

06/2021 – 02/2022	COMET Career Program for Female Postdocs (University of Bern)	CHF 3,500
02/2020	Seal of Excellence Horizon 2020 Marie Skłodowska-Curie actions (H2020-MSCA-IF-2019 call) Proposal score 91.2% (Cut-off score 93%)	
12/2017	Outstanding Service to the Student Community (IAE, UC) <i>For supporting other postgraduate students, improving the collegiate student culture and organising the 2017 IAE Postgraduate Student Conference</i>	
04/2017 – 06/2017	PhD to Postdoc Career Program (UC and Postdoc solutions)	AUD 660 (CHF 441)
12/2016	Scientific Breakthrough by a Postgraduate Student (IAE, UC) <i>For developing new methods to better understand the metabolism and toxicity of arsenic from food in humans</i>	
04/2014 – 10/2016	IAE PhD Funding (UC)	AUD 27,327 (CHF 17,689)
04/2013 – 04/2016	IAE Research Funding (UC)	AUD 9,000 (CHF 5,826)
09/2009	<i>IV Research Initiation Programme in Physical Chemistry and Biological Physical Chemistry</i> Institute of Physical Chemistry <i>Rocasolano</i> , Spanish National Research Council (CSIC)	
09/2008 – 06/2009	Collaboration Fellowship (Spanish Ministry of Education)	EUR 2,700 (CHF 2,892)
10/2007 – 06/2008	Erasmus Grant	EUR 2,844 (CHF 3,046)
02/2005 – 09/2009	Honours Academic Awards (UAM)	EUR 1,000 (CHF 1,071)

Non-competitive

02/2020	Funding for 500 Women Scientists in the Pub (Office for Gender Equality, University of Bern)	CHF 500
---------	---	---------

PARTICIPATION IN RESEARCH PROJECTS

01/09/2019 –	<i>Interfaculty Research Cooperation One Health</i> Funding body: University of Bern
01/12/2017 – 30/11/2018	<i>Next Generation Dried Blood Spot Pathology Testing using LC-MS</i> Funding body: Australian Department of Industry, Innovation and Science/Cooperative Research Centres Program
15/04/2013 – 21/07/2017	<i>Arsenic Metabolism and Toxicology in Humans</i> Funding body: University of Canberra
01/01/2012 – 20/07/2012	<i>CAPSETA2: Tailored semiconductor nanocrystals for supercapacitors</i> Funding body: Spanish Ministry of Science and Innovation/Subprogram of fundamental not-oriented research
01/04/2010 – 20/07/2012	<i>HESCAP: High Energy and power density SuperCAPacitor based energy storage system</i> Funding body: European Union / FP7 – Cooperation
02/11/2009 – 31/07/2010	<i>SA₂VE: Advanced Energy Storage Systems: Applications to the railway transport and energy sectors</i> Funding body: Spanish Ministry of Science and Innovation and FEDER funds/Singular and Strategic Projects

INSTITUTIONAL RESPONSIBILITIES AND COMMUNITY SERVICE

01/03/2022 –	Head of the Laboratory Commission , GIUB, University of Bern I coordinate, organise and communicate all the laboratory related activities to all users
01/03/2022 –	Building Evacuation Officer , GIUB, University of Bern
01/03/2022 –	Chemical Safety Officer , GIUB, University of Bern
01/03/2022 –	Laboratory Representative , GIUB House Commission, University of Bern I represent the needs and interests of the chemical laboratory users in terms of infrastructure for storage, equipment requirements and safety measures
01/03/2022 –	Laboratory Representative , GIUB IT Commission, University of Bern I represent the IT interests and needs of the chemical laboratory users at the GIUB

- 16/08/2021 – 20/08/2021 **One Health International Bachelor and Master Summer School**, University of Bern
I organised and led a session for the Summer School for BSc and MSc students to explore the microbial-mediated connections between soil, plant, animal and human health in different food production systems
- 02/2020 – 06/2021 **Coordinator:** Soil Science Colloquium and Environmental Pollution Seminar Series (GIUB)
I coordinated and led a weekly seminar series for researchers in my institute including invited speakers and workshops
- 01/2018 – 11/2018 **Coordinator:** Mentoring for Women in Science, Technology, Education and Mathematics (UC)
I coordinated and led monthly mentoring sessions for women in science
- 06/2018 – 11/2018 **Coordinator:** Analytical Applications Program Meetings (UC)
I coordinated and led a fortnightly seminar series for researchers in Forensic Science and Environmental Chemistry research groups
- 02/2016 – 10/2017 **Organiser:** Skills in Academia and General Ecology Seminars (IAE)
I organised and chaired seminars for my institution including invited speakers:
The Origins of Sex and Death by Professor Charley Lineweaver
Fossil Fuel Free University by Tom Swann
- 06/2016 – 06/2017 **Postgraduate Student Representative** (IAE)
I represented the interests of MSc and PhD students in my institution by organising group discussions and surveys; and communicating student interests, concerns and feedback to the executive through bimonthly meetings and reports
- 10/2014 **Co-coordinator:** Round Table Discussion, Postgraduate Corroboree, Kioloa, Australia (IAE)
I co-coordinated a discussion session for PhD students to provide feedback on supervision and institutional culture and reported the outcome to the executive

NON-INSTITUTIONAL COMMUNITY SERVICE

- 11/2020 – 8/2021 **Co-coordinator:** 500 Women Scientists Bern-Fribourg
I co-coordinated the local chapter of 500 Women
- 10/2019 – **Founder and coordinator:** 500 Women Scientists in the Pub
I organise and lead science outreach events to increase the visibility of female scientists (e.g., 11/02/2020 and 17/12/2020 at ONO Bern and 20/05/2021 Online Extravaganza)
- 09/2018 **Judge:** Aranda Primary School Science Fair, Canberra, Australia
I evaluated science projects of primary school students

SUPERVISION, TRAINING AND MENTORING

PhD and MSc students

- 10/2019 – **Mohana Mukherjee**, PhD, IRC One Health (Gut Microbiology, University of Bern)
Co-supervisors: Prof Siegfried Hapfelmeier-Balmer, Prof Adrien Mestrot
Title: *Studying microbiota-dependent arsenic biotransformations, body distribution and excretion in mouse models*
- 05/2019 – **Hang Guan**, PhD, IRC One Health (Soil Science Unit, University of Bern)
Title: *Maize (Zea mays L.) plants interact with soil microbes to reduce arsenic toxicity in soil-plant system*
- 01/2020 – 06/2020 **Viktoria Mueller**, MSc (University of Aberdeen and University of Bern)
Co-supervisors: Prof Jörg Feldmann, Prof Adrien Mestrot
Title: *Effect of increased temperature and flooding on the release, biomethylation and biovolatilisation of arsenic in Swiss soil*
- 10/2019 – 12/2019 **Melanie Scalise**, MSc (Gut Microbiology, University of Bern)

Laboratory staff

- 01/03/2022 – **René Nussbaumer**, Laboratory Technician (GIUB, University of Bern)
- 01/03/2022 – **Maarika Bischoff**, Laboratory Technician (GIUB, University of Bern)
- 01/03/2022 – **Livia Vogel**, Laboratory Student Assistant (GIUB, University of Bern)
- 11/2021 – **Anika Sidler**, Laboratory Technician (One Health IRC, University of Bern)

09/2020 – 08/2021 **Stephanie Pfister**, Laboratory Technician (One Health IRC, University of Bern)
 08/2019 – 12/2019 **Evelyne Vonwyl**, Research Assistant (Soil Science Unit, University of Bern)
 05/2019 – 07/2019 **Anna Muntwyler**, Research Assistant (Soil Science Unit, University of Bern)
 10/2018 – 11/2018 **Carly Beggs**, Laboratory Technician (Forensic Sciences, University of Canberra)
 06/2015 – 09/2015 **Mona Beshai**, Laboratory Assistant (Ecochemistry Laboratory, University of Canberra)

TEACHING EXPERIENCE

01/12/2020 – **Lecturer and Laboratory Demonstrator**
 BSc and MSc programs in Geography, *International interdisciplinary summer program
 Faculty of Science (University of Bern, Switzerland)

Academic year	Level	Course	Credits	Imparted (h)	Format
2022	BSc and MSc	Laboratory Safety			
HS2022	MSc	Laboratory Methods I	3	TBD	T, P, G
HS2022	MSc	Laboratory in Soil Biogeochemistry	5	TBD	P, G
HS2022	BSc	Introduction to Laboratory Methods	1.5	TBD	T, P, G
FS2022	BSc	Propadeutikum	6	4	T, P, G
FS2022	MSc	Laboratory Methods II	3.5	42	P, G
HS2021	MSc	Laboratory Methods I	3	2	T
HS2021	MSc	Soil Science Seminar	5	24	T, P, G
Summer 2021	BSc and MSc*	One Health Summer School	N/A	17	T, P
HS2020	MSc	Soil Biogeochemistry	3	2	T

T: theory, P: practical, G: grading

01/08/2013 – 30/11/2018 **Lecturer, Tutor and Laboratory Demonstrator**
 BSc programs of Environmental, Pharmaceutical, Biomedical and Sports Sciences
 Faculty of Science and Technology (University of Canberra, Australia)

Academic year	Level	Course	Credits	Imparted (h)	Format
Spring 2018	BSc	Analytical Chemistry	3	50	T, P, G
Fall 2018	BSc	Concepts in Biology	3	49	T, P, G
Spring 2017	BSc	Analytical Chemistry	3	108	T, P, G
Fall 2017	BSc	Ecochemistry	3	67	P, G
Fall 2017	BSc	Concepts in Biology	3	100	T, P, G
Spring 2016	BSc	Analytical Chemistry	3	108	T, P, G
Fall 2016	BSc	Concepts in Biology	3	25	G
Fall 2015	BSc	Concepts in Biology	3	47	T, P, G
Spring 2013	BSc	Analytical Chemistry	3	95	P, G

T: theory, P: practical, G: grading

01/10/2016 – 31/01/2017 **Chemistry Tutor** (Canberra, Australia)
 I taught high-school level Chemistry weekly to one student

01/10/2008 – 30/06/2009 **English Tutor** (Madrid, Spain)
 I taught high-school level English weekly to one student

01/10/2008 – 30/06/2009 **Mathematics Tutor** (Madrid, Spain)
 I taught high-school level Mathematics weekly to one student

MEMBERSHIPS IN PANELS, BOARDS AND INDIVIDUAL SCIENTIFIC REVIEWING ACTIVITIES

08/2020 – **Management Committee Substitute**, COST Action PLANTMETALS (CA19116)

11/2019 **Session Chair**, Physical Geography Forum (GIUB), Fribourg, Switzerland

2018 **Evaluation Committee Member**, BSc thesis final presentation (UC)

02/2017 **Co-organiser**: IAE Postgraduate Conference (UC)

12/2014 **Session Chair**: 22nd RACI Research and Development Topics Conference, Adelaide, Australia

Journal reviewer Science of the Total Environment, Ecotoxicology and Environmental Safety