Xander Huggins

Research appointments

Stockholm Resilience Centre at Stockholm University, Stockholm, Sweden Postdoctoral researcher	2025 -
Inst. for Resources, Environment, & Sustainability, UBC Vancouver, Canada	2024 -
Killam, NSERC, and Canadian Space Agency Postdoctoral Research Fellow	
UBC profile: https://ires.ubc.ca/xander-huggins/	
High Meadows Environmental Institute, Princeton University Princeton, USA	2024 -
Postdoctoral Research Associate	
Princeton profile: https://slevin.princeton.edu/people/xander-huggins-phd	
International Institute for Applied Systems Analysis Vienna, Austria	2023
Researcher, Water Security Research Group	

Education

PhD - University of Victoria Victoria, Canada

2020-2024

Department of Civil Engineering

Supervisors: Tom Gleeson, James S. Famiglietti

External examiner P.A. Ty Ferré

Groundwater-connected systems: A social-ecological framing, global data-driven applications, and sustainability implications

https://hdl.handle.net/1828/17590

Recipient of the Governor General's Gold Medal (hyperlinked)

Recipient of the <u>Canadian Association for Graduate Studies-ProQuest Distinguished</u>
<u>Dissertation Award</u> (hyperlinked) in Engineering, Medical Sciences, and Natural Sciences

BEng - University of Guelph Guelph, Canada

2013-2018

Water Resources Engineering with Distinction, Co-operative stream

Publications

- 15. Bäthge, A., Ruz Vargas, C., Lischeid, G., Collenteur, R., Cuthbert, M.O., Fleckenstein, J., Floerke, M., de Graaf, I., Gnann, S., Hartmann, A., **Huggins, X.**, Moosdorf, N., Wada, Y., Wagener, T. & R. Reinecke. (2025). GROW: A Global Time Series Dataset for Large-Sample Groundwater Studies. Submitted to *Scientific Data*.
- 14. **Huggins, X.**, Gleeson, T., Famiglietti, J.S., Reinecke, R., Zamrsky, D., Wagener, T., Taylor, R.G., Konar, M., Lindersson, S., Wada, Y., Bierkens, M.F.P., Pokhrel, Y., Rocha, J., Di Baldassarre, G., Kummu, M., Ferguson G., Mukherjee, A., Lo, M.-H., Scanlon, B.R., Johnson, M.S., & Zheng, C. (2025). A review of open data for studying global groundwater in social-ecological systems. *Environmental Research Letters*.
- 13. Sacco, M., **Huggins, X.**, Martinez, A., Reinecke, R. (2025). Collaborative science for groundwater biodiversity conservation. *Groundwater*.

- 12. **Huggins, X.**, Gleeson, T., Villholth, K.G., Rocha, J.C., Famiglietti, J.S. (2024). Groundwaterscapes: A global classification and mapping of groundwater's large scale socioeconomic, ecological, and Earth system functions. *Water Resources Research* 60(10), e2023WR036287.
- 11. Jaramillo, F. et al. (including **Huggins, X.**). The potential of hydrogeodesy to address water related problems and sustainability challenges. *Water Resources Research* 60(11), e2023WR037020.
- 10. Rohde, M.M., Albano, C.M., **Huggins, X.**, et al. (2024). Groundwater-dependent ecosystem map exposes global dryland protection needs. *Nature* 632, 101-107.
- 9. Curran, D., Gleeson, T., **Huggins, X.** (2023). Applying a science-forward approach to groundwater regulatory design. *Hydrogeology Journal* 31, 853-871.
- 8. Xu, L., Ferris, D., **Huggins, X.**, Wong, J.S., Mohan, C., Sadri, S., Chandanpurkar, H.A., Sanyal, P., Famiglietti, J.S. From coarse resolution to practical solution: GRACE as a science communication and policymaking tool for sustainable groundwater management. *Journal of Hydrology* 623, 129845.
- 7. **Huggins, X.** Gleeson, T., Castilla-Rho, J.C., Holley, C., Re, V., Famiglietti, J.S. (2023). Groundwater connections and sustainability in social-ecological systems. *Groundwater* 61(4), 463-478.
- 6. Curran, D., Gleeson, T., **Huggins, X.** (2023). Applying a science-forward approach to groundwater regulatory design. *Hydrogeology Journal* 31, 853-871.
- 5. **Huggins, X.**, Gleeson, T., Serrano, D., Zipper, S., Jehn, F., Rohde, M.M., Abell, R., Vigerstol, R., Hartmann, A. (2023). Overlooked risks and opportunities in groundwatersheds of the world's protected areas. *Nature Sustainability* 6, 855-864.
- 4. Mohan, C., et al. (including **Huggins, X.**). (2022) Poor correlation between large-scale environmental flow violations and freshwater biodiversity: implications for water resource management and the water planetary boundary. *Hydrology and Earth Systems Sciences*. 26, 6247–6262.
- 3. **Huggins, X**., Gleeson, T., Kummu, M., Zipper, S.C., Troy, T.J., Wada, Y., Famiglietti, J. (2022). Hotspots for social and ecological impacts from freshwater stress and storage loss. *Nature Communications* **13**, 439.
- 2. Diggle, R., Tait, D., Maher, D., **Huggins, X.**, Santos, I. (2019). The role of porewater exchange as a driver of CO2 flux to the atmosphere in a temperate estuary (Squamish, Canada). *Environmental Earth Sciences* 78, 1-13.
- 1. **Huggins, X**. Gleeson, T., Eckstrand, H., Kerr, B. (2018). Streamflow Depletion Modeling: Methods for an Adaptable and Conjunctive Water Management Decision Support Tool. *Journal of the American Water Resources Association* 54, 1-15.

Manuscripts in preparation

- 8. **Huggins, X.** Virkki, V. et al. Grounding global freshwater systems science in social-ecological systems.
- 7. Vesnovskii, P. et al. (including **Huggins, X.**). Mapping global water resilience risks for river basin governance.
- 6. Viriyaroj, B. et al (including **Huggins, X.**). Evolution of global crop production systems from 2001 to 2020.
- 5. Nykänen, R. et al. (including **Huggins, X.**). The state of the world's grazing lands.

- 4. Kummu, M., **Huggins, X.**, et al. Unveiling global humanscapes: harmonised subnational socio-economic datasets for understanding societal changes and enhancing risk assessments.
- 3. Re, V. et al. (including **Huggins, X.**). Socio-Hydrogeology A transdisciplinary approach to groundwater science.
- 2. Gleeson, T., **Huggins, X.** et al. Strengthening our wings of equity to help students navigate our challenging world: embedding anti-racism, environmental justice and sustainability science across an undergraduate civil engineering program.
- 1. **Huggins, X.**, Gleeson, T., Moore, M.-L., Villholth, K., & J.S. Famiglietti. The puzzling complexity and diversity of global groundwater sustainability challenges

Chapters and reports

- 2. **Huggins, X.** (2022). Global archetypes of groundwater interactions in social-ecological systems. IIASA Young Scientist Summer Program Fellowship Report. Recipient of the IIASA YSSP Mikhalevich Award.
- 1. Gleeson, T., **Huggins, X.**, Connor, R., Arrojo-Agudo, P., Vázquez Suñé, E. (2022). Groundwater and Ecosystems, Chapter 6 of *UNESCO Water Development Report 2022*: "Groundwater: Making the invisible visible".

Funding history (all values in CAD; total to date: \$428,500)

Canadian Space Agency Postdoctoral Supplement (\$20,000) Awarded to 5 NSERC PDF award holders who are "involved in a promising research project that is aligned with and that will contribute to the priorities outlined in the Space Strategy for Canada".	2024-2026
Killam Postdoctoral Research Fellowship (\$120,000) – held in name only University of British Columbia Fellowship awarded to those "likely to contribute to the advancement of learning or to win distinction in a profession. A Killam scholar should not be a one-sided person Special distinction of intellect should be founded upon sound character."	2024-2026
Postdoctoral Fellowship (NSERC PDF) Award (\$140,000) Natural Sciences and Engineering Research Council of Canda (NSERC). Funding provided to "a core of the most promising researchers".	2024-2026
President's Research Scholarships (\$15,000, \$5,000/year awarded) University of Victoria	2021-2023
Alexander Graham Bell Canada Graduate Scholarship – Doctoral (\$105,000) Natural Sciences and Engineering Research Council of Canada (NSERC) Federal funding to reward and retain high-calibre doctoral students at Canadi institutions, and awarded through a national competition.	2021-2024 an
Alexander Graham Bell Canada Graduate Scholarship – Masters (\$17,500) Natural Sciences and Engineering Research Council of Canada (NSERC) Master's degree funding awarded to students demonstrating a high standard achievement in undergraduate and early graduate studies.	2018 of
Undergraduate Student Research Award (\$6,000)	2015

Natural Sciences and Engineering Research Council of Canada

Awards and recognition (all values in CAD)

CAGS-Proquest Distinguished Dissertation Award (\$1,500) 2025 For the Engineering, Medical, and Natural Sciences category Recognizes Canadian doctoral dissertations that make unusually significant and original contributions to their academic field and to Canadian society at large. Generally considered as the award recognizing the best doctoral dissertation in the country for the given year within each category. **Governor General's Gold Medal** 2025 University of Victoria "The Governor General's Gold Medal is awarded for outstanding academic excellence at the graduate level and is the most prestigious award that students in Canadian schools can receive" Mikhalevich Award (~\$8,000) 2023 International Institute for Applied Systems Analysis Awarded to best mathematically and methodologically oriented PhD fellowship report **Outstanding Student Presentation Award (\$250)** 2019 American Geophysical Union Fall Meeting Awarded to top 5% of student presentations at the largest Earth science conference in the world **Professor Ross W. Irwin Scholarship in Water Resources** (\$1,000) 2018 University of Guelph Awarded for active involvement in water conservation issues and academic excellence. Raymond Theodore Guther Memorial Scholarship (\$2,000) 2018 University of Guelph Awarded for extra-curricular work in water conservation and water resources. Conference sessions organized 2. Open meeting of the Global Freshwater Resilience Workshop. EGU General 2025 Assembly. Vienna, Austria. Co-organized with Vili Virkki. 1. People and Groundwater in the Anthropocene - Socio-hydrogeology for addressing 2024 human-groundwater relationships in a changing world. World Groundwater Congress. Davos, Switzerland. Co-chaired with Viviana Re. **Conference presentations** 17. Huggins, X., & Rohde, M.M. Groundwater-dependent ecosystem map highlights 2025 global dryland protection needs. EGU General Assembly. Vienna, Austria. (Invited Oral) 16. Kummu et al. (including **Huggins**, **X.**). Unveiling global humanscapes: harmonised 2025 subnational socio-economic datasets for understanding societal changes and enhancing risk assessments. EGU General Assembly. Vienna, Austria. (Oral) 15. Bäthge et al. (including **Huggins, X.**). GROW: A Global Time Series Dataset for 2025 Large-Sample Groundwater Studies. EGU General Assembly. Vienna, Austria. 14. Huggins, X. et al. A review of open data for studying global groundwater in social-2025

ecological systems. EGU General Assembly. Vienna, Austria. (Oral)

13.	Huggins, X. Groundwaterscapes & riskscapes: Early empirical approaches to understand global groundwater in social-ecological systems. <i>Critical Transitions in Socio-Ecological Systems Workshop</i> . Princeton, USA. (<i>Oral flash talk</i>).	2025
12.	Huggins, X., Gleeson, T, Villholth, K.G., Rocha, J.C., Famiglietti, J.S. Groundwaterscapes: A global application of a new conceptual framing to understand groundwater systems as social-ecological systems. <i>World Groundwater Congress</i> . Davos, Switzerland. (<i>Oral</i>)	2024
11.	Huggins, X., Gleeson, T, Villholth, K.G., Rocha, J.C., Famiglietti, J.S. Global groundwater system archetypes: a data-driven typology of social, ecological, and Earth system interactions with groundwater at the global scale. 6 th International Research Workshop on Archetypes in Sustainability Research. Lund, Sweden. (Oral)	2023
10.	Huggins, X., Gleeson, T., Villholth, K.G., Rocha, J., Famiglietti, J.S. Global groundwater archetypes: a new typology of groundwater interactions with social and ecological systems and an outlook for sustainable development. <i>EGU General Assembly</i> . Vienna, Austria. (<i>Highlighted oral</i>)	2023
9.	Xu, L., Famiglietti, J.S., Ferris, D., Huggins , X. , Mohan, C., Sadri, S., Sanyal, P. From coarse resolution to realistic resolution: GRACE as a science communication and policymaking tool for sustainable groundwater management. <i>EGU General Assembly</i> . Vienna, Austria. (<i>Oral</i>)	2023
8.	Huggins, X., Gleeson, T., Serrano, D., Zipper, S., Jehn, F., Rohde, M.M., Abell, R., Vigerstol, R., Hartmann, A. Overlooked risks and opportunities for global protected areas revealed by mapping groundwatersheds. <i>World Water Week</i> . Stockholm, Sweden. <i>(Solicited oral)</i>	2022
7.	Huggins, X., Gleeson, T., Kummu, M., Zipper, S.C., Troy, T.J., Wada, Y., Famiglietti, J.S. Vulnerable basins for global prioritisation: Hotspots for social and ecological impacts from freshwater stress and freshwater storage loss. <i>EGU General Assembly</i> . Vienna, Austria. (<i>Invited oral</i>)	2022
6.	Huggins, X. Gleeson, T., Castilla-Rho, J.C., Holley, C., Re, V., Famiglietti, J.S. (2022). Groundwater in complex adaptive social-ecological systems. Canadian Water Resources Association National Conference. Canmore, Canada. (<i>In-absentia poster</i>).	2022
5.	Huggins, X. , Gleeson, T., Famiglietti, J. (2021). An open-access interdisciplinary database to facilitate data science on cross-cutting global groundwater sustainability challenges. Delft International Conference on Sociohydrology. (<i>Oral, online</i>). Delft, the Netherlands	2021
4.	Gleeson, T., Huggins, X. , & T. Froese. Teaching human- and sustainability-centered design: A civil engineering design spine supported by sustainability muscles and a heart of anti-racism, equity, diversity, and inclusion. (<i>Pre-recorded oral</i>). Let's Talk About Teaching.	2021
3.	Huggins, X. , Gleeson, T., Kummu, M., Zipper, S.C., Troy, T.J., Wada, Y., Famiglietti, J. (2020). Sustainability hotspots of changing global freshwater availability. Invited lighting talk at the American Geophysical Union Fall Meeting. (<i>Invited oral, online</i>). San Francisco, USA.	2020
2.	Huggins, X., Gleeson, T., Zipper, S.C., Troy, T.J., Wada, Y., Famiglietti, J.S. Human dimensions of changing global freshwater availability. <i>AGU Fall Annual Meeting</i> . San Francisco, CA. <i>(Oral)</i> . Awarded outstanding student presentation award.	2019
1.	Huggins, X. , Gleeson, T., Eckstrand, H., Kerr, B. Streamflow depletion modeling: Methods for an adaptable and conjunctive water management decision support tool. <i>Canadian Water Resources Association Annual Conference</i> . Victoria, Canada (Oral)	2018

Invited talks

15. Integrated Earth Systems Dynamics Lab, McGill University, Montreal, Canada	2025
 Hydrological Systems Analysis Research Group, University of Potsdam, Potsdam, Germany 	2025
13. Conversations on Environment, Responsible Energy, and Life (CEREAL), High Meadows Environmental Institute, Princeton University Princeton, USA	2025
12. Land Use and Global Environment Lab, University of British Columbia	2025
Vancouver, Canada	
11. Department of Earth Sciences Seminar, Uppsala Universitet Uppsala, Sweden	2025
10. Water Resilience Colloquium, Stockholm Resilience Centre Stockholm, Sweden	2025
9. Maxwell Research Group, Princeton University Princeton, USA	2024
8. Water and Development Research Group, Aalto University Espoo, Finland	2024
7. International Groundwater Resources Assessment Centre Delft, the Netherlands	2023
6. Geographisches Institut, Johannes Gutenberg University Mainz Mainz, Germany	2023
5. Graduate Hydrogeology Course, Arizona State University Tempe, USA	2023
4. Global Groundwater Group, The Nature Conservancy (online)	2022
3. Water and Development Research Group, Aalto University Espoo, Finland	2022
2. Water Security Research Group, IIASA Vienna, Austria (online)	2022
1. Water Research Roundup, POLIS Water Sustainability Project, Victoria, Canada	2022

Workshops

Creative Water Connections Workshop. Victoria, BC, Canada.	4/2025
Workshop on Critical Transitions in Socio-Ecological Systems. Princeton Center for	2/ 2025
Theoretical Science. Princeton, USA.	
Environmental Data Science Summit. Participant. Santa Barbara, USA. (in absentia)	2/ 2024
6 th Workshop on Archetypes in Sustainability Research. Lund, Sweden	6/ 2023
Lakes, peatlands and wetlands: Functions and fate. Participant. Tovetorp, Sweden.	5/ 2023
I co-lead the Global Freshwater Systems Science Workshop : a semi-annual meeting of a multi-institutional collective of large-scale water resilience scientists with	6/ 2025 1/ 2025
support and collaboration from the Stockholm Resilience Centre, Aalto University, University of Eastern Finland, and the Potsdam Institute for Climate Impact Research	6/ 2024
	11/ 2023
(PIK).	5/ 2023

Student advising

Bhattarabhop Viriyaroj: DSc, Aalto University. Thesis advisor/committee member.	2025 -
Sukshith P H: MS, IISER Pune. Co-advisor.	2025 -
Bilal Bartaai, summer undergraduate research assistant, <i>University of British Columbia</i> .	2025

Curriculum development

Learn and teach green, people-centered civil engineering

2020-2022

Department of Civil Engineering, University of Victoria.

I co-led this initiative to integrate core sustainability science, environmental justice, environmental racism, and EDI concepts across the undergraduate civil engineering curriculum at the University of Victoria. I led targeted curriculum development for several courses, including lecture slides, inclass activities, and assignments. In total, the initiative generated >20 lecture decks, and 8 inclass breakout activities to teach how these core sustainability, environmental justice, and EDI concepts interrelate and relative to engineering design and professional engineering practice.

Example resources:

- 1. **Huggins, X**., and Gleeson, T. Sustainability Fundamentals for Groundwater Hydrologists (*Lecture slides*)
- 2. Gleeson, T., and **Huggins, X.** Groundwater Resources and Global Change. (*Lecture slides*)
- 3. Gleeson, T., Mohan, C., Okibe, S., Horoscoe, N., **Huggins, X.**, Ng, C., Jacoby, A. Environmental Justice Fundamentals for Groundwater Hydrologists. (*Lecture slides*)

Initiative webpage: https://oac.uvic.ca/civelearningandteaching/

Teaching assistant positions

Groundwater Hydrology (CIVE 445/545). University of Victoria.	2020, 2021
Hydrology and Hydraulics (CIVE 440/540). University of Victoria.	2020
Fluid Mechanics (CIVE 345). University of Victoria.	2019, 2020
Sustainable Water Resources (CIVE 340). University of Victoria.	2019
Mean teaching assistant effectiveness score of 9.5/10 (n=47 student evaluations)	

Guest teaching lectures

Sustainability science fundamentals. <i>Groundwater Hydrology (CIVE 445)</i> . University of Victoria.	2025
Groundwater ecohydrogeology: core concepts. <i>Ecohydrology of watersheds and water systems (ENVR 420)</i> . University of British Columbia.	2025
Open channel flow, routing, and flooding. Sustainable Water Resources (CIVE 340). University of Victoria.	2023
Groundwater sustainability in social-ecological systems. <i>Groundwater Hydrology (CIVE 445/545)</i> . University of Victoria.	2023
Engineering for sustainability in a complex world. <i>Capstone Engineering Design (CIVE 400)</i> . University of Victoria.	2022
Open channel flow. <i>Hydrology and Hydraulics (CIVE 440)</i> . University of Victoria. Groundwater hydrology. <i>Sustainable Water Resources (CIVE 340)</i> . University of Victoria.	2019 2019

Media coverage

2025

 The Canadian Association for Graduate Studies Announces Winners of 2025 CAGS-ProQuest Distinguished Dissertation Award (<u>Link</u>)

2024

- Groundwater is key to protecting global ecosystems. World Bank The Water Blog. (Link)
- Mapping groundwater-dependent ecosystems shows the need for more protection globally.

 **Nature Research Briefing. (Link)
- Groundwater is Key to Protecting Global Ecosystems. *Desert Research Institute News*. (*Link*) **2023**
- Why protected areas must consider what's beneath the surface. TNC Science Brief. (Link)
- USask-led research: Majority of world's protected ecosystems vulnerable to groundwater degradation. *USask news*. (Link)
- Groundwater and biodiversity: A new study reveals global gaps in the protection of nature reserves. *Smart Water Magazine*. (Link)
- Exceptional young scientists awarded. IIASA news. (Link)

2022

- The US is losing some of its biggest freshwater reserves. *Popular Science*. (Link)
- When we run out of water. The Tyee. (Link)
- Global water basin hotspots prioritize areas under threat: USask research. USask news. (Link)
- Global hotspots mapped out in new water study. UVic news. (Link)

Science outreach

Science Meets Parliament BC – declined invitation due to schedule conflict Event designed to strengthen the connection between the science and policy communities in British Columbia, bringing scientists to the provincial Legislative Assembly for extensive engagements with MLAs.	2025*
Water Day on the Hill	2020
Inaugural event to bring scientists from across Canada to meet with parliamentarians and senior federal officials to raise awareness around water security in Canada.	
Water availability stripes data visualization	2020
A science communication tool to bring awareness to recent trends in water availability in the major basins of the world. The initiative was based on and inspired by Ed Hawkins's global warming stripes data visualization. The water availability stripes have been accessed by tens of thousands of people online, and the initiative is archived <a american="" and="" blogospheres.<="" both="" by="" european="" geophysical="" geosciences="" hosted="" href="https://example.com/here/beauty-stripes-new-maile-en-like-</td><td></td></tr><tr><td>waterunderground blog</td><td>2016-</td></tr><tr><td>Managing editor of the groundwater blog " is="" respective="" td="" the="" union="" union's="" waterunderground"="" which=""><td>2021</td>	2021

Writing for a public audience

Huggins, X. (November 2, 2022). Ripple effect: As global freshwater basins dry up, the threat to ecosystems and communities grows. Conversation Canada. (Link)

Huggins, X, T. Gleeson & J.S. Famiglietti. (April 29, 2020). Perspective: How does the coronavirus crisis compare to the global groundwater crisis? Circle of Blue. (Link)

Journal reviews

I have performed peer review for the following journals:

Nature Communications (IF = 14.7)

Environmental Research Letters (IF = 5.8)

Groundwater (IF = 2.9)

Water Resources Research (IF = 4.6)

Journal of Hydrology (IF = 6.4)

Ecology and Society (IF = 5.3)

Hydrogeology Journal (IF = 2.4)

Geophysical Research Letters (IF = 4.6)

Global Sustainability (IF = 4.6)

Competencies

Programming Languages: R, Python, Google Earth Engine, Bash

Visual MODFLOW, ArcGIS, QGIS, Software:

Affinity Designer, Inkscape

Languages: English (native), French (advanced),

German (beginner)

Open science

GitHub Repositories Code repository for the Water availability stripes

data visualization initiative. [GitHub link]

Code for: Hotspots for social and ecological impacts from freshwater stress and storage loss.

[GitHub link]

Code for: Overlooked risks and opportunities in

groundwatersheds of the world's protected areas.

[GitHub link]

Code for: Global groundwater system archetypes.

[GitHub link]

Groundwaterscapes code repository

[GitHub link]

Data depositions: Data from: Hotspots for social and ecological

impacts from freshwater stress and storage loss.

Borealis. https://doi.org/10.5683/SP3/SLR3GF

Data from: Overlooked risks and opportunities in Groundwatersheds of the world's protected areas. *Borealis*. https://doi.org/10.5683/SP3/P3OU3A

Data and code from: Groundwaterscapes: A global classification and mapping of groundwater's large-scale socioeconomic, ecological, and Earth system functions. *Borealis*.

(#3)

https://doi.org/10.5683/SP3/MFYCWV

Preprints (associated paper) Huggins et al. 2020. [link]

Huggins et al. 2022a. [link] (#5)

Huggins et al. 2022b. [link] (#7)

Huggins et al. 2023. [link] (#1)

Huggins et al. 2024. [link] (#10)

Huggins et al. 2025. [link] (#13)

Other professional experience

Stockholm Resilience Centre Stockholm, Sweden	2023
Visiting PhD researcher	
International Institute for Applied Systems Analysis Vienna, Austria Young Scientist Summer Program PhD Fellowship	2022
Global Institute for Water Security Saskatoon, Canada Graduate student member	2020 - 2023
City of Hamilton Hamilton, Canada Student Groundwater Technician	2017
City of Ottawa Ottawa, Canada Water Resources Engineering Intern	2016
G360 Groundwater Research Institute, University of Guelph Guelph, Canada Undergraduate student research assistant	2015

References

Tom Gleeson

Professor, President's Chair

Civil Engineering, University of Victoria (Canada)

tgleeson@uvic.ca note: PhD supervisor

James S. Famiglietti

Global Futures Professor

School of Sustainability, Arizona State University (USA)

jay.famiglietti@asu.edu note: PhD co-supervisor

Matti Kummu

Professor

Water and Environmental Engineering, Aalto University (Finland)

matti.kummu@aalto.fi

note: frequent collaborator

Mark S. Johnson

Professor

Institute for Resources, Environment, and Sustainability, Univ. of British Columbia (Canada)

mark.johnson@ubc.ca

note: Postdoctoral host/supervisor at UBC