

Prof. Valentin R. Troll

*26 January 1971 in Würzburg (Germany)

TOP 5 RESEARCH PAPERS

- Troll, V.R. et al., Origin of silicic magmatism at the Katla Volcanic Complex, South Iceland, *Geochemistry, Geophysics, Geosystems* (2025).
- Day J. et al., Deep crustal assimilation during the 2021 Fagradalsfjall Fires, Iceland, *Nature* (2024).
- Bindeman I.N. et al., Diverse mantle components with invariant oxygen isotopes in the 2021 Fagradalsfjall eruption, Iceland, *Nature Communications* (2022).
- Troll V.R. et al., Petrogenesis of the Loch Bà ring-dyke and Centre 3 granites, Isle of Mull, Scotland, *Contributions to Mineralogy & Petrology* (2021).
- Troll V.R. et al., Fault-Controlled Magma Ascent Recorded in the Central Series of the Rum Layered Intrusion, NW Scotland, *Journal of Petrology* (2020).

AREAS OF EXPERTISE

- Igneous & high-temperature petrology
- High-temperature geochemistry
- Geochemical & isotope modelling
- High P–T experimental petrology
- Micro-beam analytical techniques
- Volcanology and volcanic processes
- Magmatic and volcanic resources
- Field geology and mineral exploration
- In-situ stable isotope analysis

INTELLECTUAL OUTPUT

>190 ISI publications | 17 published reports
7 scientific books | 2 course books
>450 conference abstracts
>8900 citations | h-index 55 | i10-index 162

RESEARCH FUNDING

- **ERC Synergy Grant (2024–, Co-PI), €9.98 M total**, including **€2.65 M to Uppsala University**.
- **€6.2 M** external funding secured at **Uppsala University since 2008**, plus **≈€0.7 M** with partner institutions.
- **€1.75 M** competitive funding secured at **Trinity College Dublin (2003–2007)**.

ADMINISTRATION & LEADERSHIP

- Strategic leadership of a 60-person multidisciplinary unit (Uppsala University), including budgeting, staff development and performance reviews, and research strategy.
- Oversight of 25 PhD students as Director of Postgraduate Studies (UU), 2023–present.
- Governance roles: recruitment committees, institute boards, election committees.

PRESENT EMPLOYMENT

UPPSALA UNIVERSITY (UU), SWEDEN
Chair of Petrology 2008–present
Dept. of Earth Sciences | Section for Natural Resources & Sustainable Development
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FORMER EMPLOYMENT

TRINITY COLLEGE DUBLIN (TCD), Ireland
Associate Professor 2007–2008
Permanent Lecturer 2004–2007
Lecturer in Volcanology & Petrology 2001–2004

EDUCATION

- **Honorary M.A.**, *Trinity College Dublin*, 2008.
- **Habilitation (HDR)**, *Blaise Pascal University*, France, 2006.
- **PhD** Geochemistry & Petrology, *GEOMAR/Kiel University*, Germany, 2001.
- **BSc** Geology (Hons), *St Andrews University*, Scotland, 1998.
- **Vordiplom** Geology, *University of Würzburg*, Germany, 1996.
- **Certified Industrial Toolmaker**, *Siemens AG*, Würzburg, 1990.

SELECTED HONOURS & AWARDS

Björkén Prize, UU, 2025 | Top Downloaded Article *Geology Today*, 2023 | Top 100 Read Articles *Scientific Reports* | VMSG Award, UK, 2011 | Most Cited Paper Award, *JVGR*, 2007

SELECTED APPOINTMENTS

- 2023–present: Head, Unit for Natural Resources and Sustainable Development, UU.
- 2023–present: Director, Postgraduate Studies, Natural Resources & Sustainable Development, UU.
- 2019–present: Associate Editor, Journal of Petrology (Oxford University Press).
- 2018–present: Steering Committee Member, NORDSIMS and Vegacenter, Swedish National Geochemical Facilities.
- 2014–present: Senior Editorial Advisor, topic Geochemistry, Springer Publishing Group.
- 2009–2019: Director, National Microprobe Facility, UU.
- 2017–2019: External Evaluator; EPOS, Lund University, CSIC (Spain).
- 2011–2018: Steering Committee Member, MeMoVolc (ESF Network).
- Ongoing: Visiting Fellowships; Royal Society, Erasmus, UNPAD, GEOVOL, INGV.

TEACHING & SUPERVISION

- Courses: Introductory to advanced Petrology, High-T Geochemistry, Volcanology, and Field Classes (Sweden, Iceland, Canary Islands).
- Supervised 23 PhD and 33 MSc students to completion; currently co-supervising 3 PhD and 3 MSc students.
- PhD students: 15 international awards.
- BSc/MSc students: 10 national and international awards.

FELLOWSHIPS & PROFESSIONAL MEMBERSHIPS

- Royal Geographical Society (FRGS), 2024–
- Corresponding Member, Royal Canary Academy of Sciences (RAC Ciencias), 2023–
- Royal Society of Arts (FRSA), 2022–
- Mineralogical Society of Great Britain and Ireland (FMinSoc), 2008–; Member, 1997–2008
- Geological Society of London (FGS), 2008–
- Trinity College Dublin (FTCD), 2007–
- International Association of Volcanology and Chemistry of the Earth's Interior, 2007–
- European Geosciences Union, 2007–
- Swedish Geological Society, 2008–
- Geochemical Society, 2005–
- Irish Geological Association, 2002–2008
- American Geophysical Union, 2000–
- German Mineralogical Society, 1999–

STAFF DEVELOPMENT & TRAINING

- Mentoring of early-career researchers in grant writing, laboratory development, publishing, and international collaboration.
- International co-supervision and facilitation of research exchanges.
- Advanced laboratory training in micro-analytical and isotope techniques.
- Curriculum development & teaching: MSc and PhD courses, field-based training, doctoral schools.
- Senior mentor in the “Via:mento” mentoring programme for female researchers at Kiel University, Germany.
- Invited external examiner for 3 MSc theses and 22 PhD theses.
- Chief Examiner for Natural Resources and Sustainable Development at Uppsala University – Examination of MSc project proposals and theses (between 25-30 annually).
- Member of the examiner team for Petrology, Mineralogy and Geology, 2010-present (5-10 proposals and theses, 2019–present).
- Postdoctoral advisor for 14 doctoral researchers in total, currently supervising 4 researchers, 2009–present.

OUTREACH & PUBLIC ENGAGEMENT

- Science Communication in international and national media:
 - » German TV ZDF Terra X, La Palma eruption, to be released in summer 2026, featured scientist and adviser.
 - » BBC Earth and NatGeo documentaries on La Palma eruption, 2022, consultant/contributor.
 - » National Geographic X-Ray Earth, 2020, consultant.
 - » Japanese TV Toba supervolcano, 2018, featured scientist.
 - » Discovery Channel Daily Planet, Krakatau anniversary, 2013, featured scientist.
 - » Expert commentator: SVT, SR (Sweden), ARD, ZDF, RTL (Germany) ongoing.
- Public engagement from pre-school children to lifelong learners with videos (YouTube) and invited lectures (e.g. Seabourn Cruise Line).
- Field guides and educational materials for museums: Mourne Cooley (2015–2018); Isle of Rum Interpretive Centre (2007–2009); Tertiary Igneous Rocks online guide, AGU (2005).