



William Smith

Geologist



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United Kingdom



+44 7827 327 225



smithwd1@cardiff.ac.uk



willdsmith1995@gmail.com



@ExplorePGE



william-daniel-smith



profile/william_smith94

About Me

A hard-working, diligent individual with enthusiasm for problem-solving. I have strong communication and leadership skills, demonstrated in conference participation, fieldwork, and sports coaching. I am punctual and value the importance of setting and executing deadlines. Pursuing academia has allowed me to hone my skills as an independent researcher, but I enjoy working as part of a multi-disciplinary team during exploration programmes and with research collaborators. Fieldwork programmes in northern Canada, southern Brazil, South Africa, and the United Kingdom have provided valuable fieldwork experience in different climates, each of which possess different challenges.

Interests

As a geologist, my biggest interest is the outdoors; hiking, camping, and exploring. My hobbies include football, both competing and coaching youth sides. I also enjoy cooking and baking, and often experiment with new foods and techniques.

Education History

2017 - present PhD, Cardiff University

Specialising in magmatic ore deposits

2016 - 2017 MRes, University of Portsmouth

Specialising in ore deposit geology (76%)

2013 - 2016 BSc (Hons) Geology, University of Portsmouth

Specialising in geochemistry (78%)

2006 - 2013 Callington Community College and Sixth Form

Specialising in geography and physical sciences (A* to C)

Employment History

Summer 2018 Exploration Geologist, Northern Shield Resources

Exploration for magmatic sulphide occurrences in Canada

Summer 2017 Exploration Geologist, Cornwall Resources Limited

Characterisation of W-Sn-Cu ore deposits in England

Summer 2016 Chemical Engineer, Grinding Solutions

Metallurgical processing for Cu-Pb-Zn ore deposits

Summer 2016 Saint Mellion Resort, Cornwall

Barman, waiter, chef, and events staff

2015 - present Demonstrator, University of Portsmouth & Cardiff

Teaching units and fieldcourses in geology and exploration.

Fieldwork Experience



Cornwall, United Kingdom

W-Sn-Cu-Zn-Pb ore deposits and surrounding geology



Labrador Trough, Canada

Magmatic Ni-Cu-PGE sulphide prospecting



Bushveld Complex, South Africa

PGE-Cu-Ni reef deposits and surrounding geology



Troodos Ophiolite, Cyprus

VMS ore deposits and geodynamics



Ouro Preto, Brazil

Volcano-sedimentary mapping undergraduate project



Other trips include Brittany (France), Ullapool (Scotland), Portuguese ore deposits, Leoban (Austria), Coed-y-Brenin (Wales)

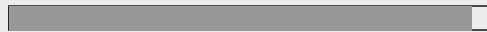
Skills

Software

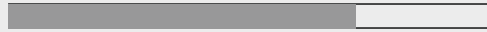
ArcGIS/MapInfo/QGIS



CorelDraw/Illustrator



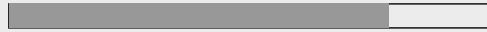
IOGAS/GCDDKit



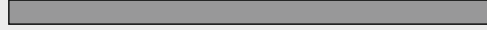
Leapfrog 4.4/Micromine



Igneous Modelling



Microsoft Office



Programming

R and RStudio



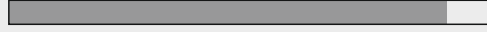
Matlab



Python



LaTeX

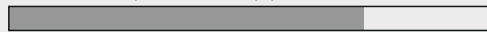


Analytical

Crushing/Milling apparatus



Mineral separation apparatus



Portable and machine XRF



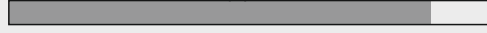
ICP-MS chemistry



Optical microscopy



Electron microscopy



References

➤ **Wolfgang Maier**
Cardiff University
maierw@cardiff.ac.uk

➤ **Ian Bliss**
Northern Shield Resources
ibliss@northern-shield.com

Additional references available on request

Honours and Awards

- CASE NERC DTP PhD research grant
- Mineralogical Society postgraduate bursary
- Hugh McKinstry SEG research grant
- University of Portsmouth postgraduate scholarship
- PESYB undergraduate mapping sponsorship
- TSG national mapping finalist
- Stewart R. Wallace SEG fieldwork grant
- University of Portsmouth highest averaging student

Memberships and Conference Participation

- SGA biannual conference, Glasgow 2019. Poster presentation
- Platinum Symposium, South Africa 2018
- Geologists Association, London annually 2017-2019. Student presenter
- Mineral Deposit Studies Group, 2017-2019. Annual student presenter
- FINEX 2019 and PETEX 2017
- President and Treasurer of the SEG Student Chapter, Cardiff & Portsmouth
- Student member of the Mineralogical Society
- Student member of the IOMMM
- Student representative of the Applied Mineralogy Group

Qualifications and Course Participation

- Full clean UK driving license
- Level 1 FA football coaching certificate, with child protection and first aid
- Exploration Geochemistry, Camborne School of Mines
- Micromine workshop, London
- Exploration geochemistry and sampling methods, Miskolc
- Exploration geochemistry and ore microscopy, Freiburg
- Midland valley MOVE and FieldMOVE workshop

Publications and Research Outputs

- Zircon perspectives on the age and origin of evolved S-type granites from the Cornubian Batholith, Southwest England (2019). Lithos 336.
- Contact-style sulphide mineralisation at the Idefix PGE-Cu prospect in the Labrador Trough: implications for regional prospectivity. (in-review)
- Sulphur saturation histories at the Huckleberry Cu-Ni-PGE prospect in the Labrador Trough. (in-press)
- The paragenesis of the Redmoor W-Sn-Cu prospect in the eastern Cornubian Batholith. (in-prep)