


CELESTE SMITH



Quantitative Geochemist and Risk Analysis Expert

@ celestesmith92@gmail.com +33 7 83 91 05 35 Paris, France in linkedin.com/in/celsmith999/
🔗 https://research-portal.st-andrews.ac.uk/en/persons/celeste-smith

EXPERIENCE


Catastrophe Analyst

 **Berkshire Hathaway Specialty Insurance, Catastrophe Engineering and Analytics**

 October 2019 – September 2022  San Ramon, California, USA

- Evaluated natural catastrophe risk for multi-national property groups on accounts ranging in value between \$1M USD – \$1B+ USD.
- Excelled in regular communication of data driven insights regarding the hazard, vulnerability and pricing of various accounts to a wider audience of underwriters and non-technical company members in a fast-paced environment.
- Volcanology expert responsible for all exports of the team's related risk assessments.
- Led a variety of staff trainings and workshops on internal tools.

Research Assistant


 **Geochemistry and Volcanology Lab, Wesleyan University**

 March 2017 – May 2019  Middletown, Connecticut, USA

- Collected in-situ CO₂ gas flux samples over two field seasons at Newberry Volcano, OR, USA. See article.
- Presented research at various international conferences: International Association of Volcanology and Chemistry of the Earth's Interior Conference (IAVCEI), 2017; IAVCEI Commission on Volcanic Lakes Workshop, 2018; American Geophysical (AGU), 2018.
- Awarded an undergraduate research grant from the NASA Connecticut Space Grant Consortium, 2017 and a Research Fellowship from the College of the Environment, 2018.

Data Analytics and Media Intern

 **Big Think**

 June 2016 – August 2016  New York, NY, USA

- Analyzed site traffic on a yearly to monthly basis with Google Analytics for optimization of engagement in both the public and enterprise platforms.
- Directly collaborated with the President and CEO on marketing presentations for funders.
- Aided in speech writing for the executives at conferences.

EDUCATION

PhD Earth and Environmental Sciences


 **University of St Andrews**

 September 2022 – Present  St Andrews, Scotland

- Supervised by Dr. William Hutchison, Pr. Andrea Burke, Dr. Richard Streeter and Dr. Ian Lawson, thesis on reconciling volcanic signals in polar ice cores with their source eruptions, quantifying their impact on the paleoclimate temperature and extreme weather events, and developing methods for analyzing sub-micron scale volcanic material.

BA Earth and Environmental Sciences with Honors

 **Wesleyan University**

 September 2015 – May 2019  Middletown, Connecticut, USA

- Supervised by Harold T. Stearns Professor of Earth Science, Johan Varekamp. Thesis titled, "A Geochemical Investigation of the Monticchio Lakes, Monte Vulture, Basilicata, Italy", received Honors. Awarded the Mary and John Sease Prize for outstanding work in environmental science.


HOBBIES & INTERESTS

Hiking Swimming Singing
Classics Poetry Linguistics

SOFTSKILLS

Creative Problem Solving
Public Speaking Advocacy
Collaboration Copy Editing
Creative Writing

PROFESSIONAL SKILLS

- Catastrophe Modeling and Risk Assessment
AIR INTEQ
- Laboratory Instrumentation
EPMA SEM-EDS MC-ICP-MS
LA-ICP-MS
- Development Languages & Tools
R RStudio  MATLAB

English ●●●●●
French ●●●●●
Spanish ●●●●●