

Samuel Smock

CONTACT

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COMPUTER SKILLS

- ArcGIS	●●●●● Advanced
- Javascript	●●●●● Proficient
- 3D Modeling	●●●●● Proficient
- HTML/CSS	●●●●● Proficient
- Python	●●●●● Intermediate
- Photoshop	●●●●● Intermediate
- SQL Spatialite	●●●●● Intermediate
- PowerBI	●●●●● Beginner

LANGUAGES

- English	●●●●● Native Speaker
- Spanish	●●●●● C1
- German	●●●●● B2

Student of sustainability with a broad, interdisciplinary approach to achieving environmental goals. I am resourceful, curious and quick to pick up new skills or learn new software to solve problems. Particular areas of interest are research and policy around geothermal and solar thermal renewable energy sources and their use in conjunction with heat pumps for heating and cooling.

EDUCATION

Expected Spring 2023	Universität Leipzig M.Sc. in Sustainable Development, Leipzig, Saxony, Germany
05/2012	Columbia University B.S. in Applied Physics, <i>Cum Laude</i> New York, New York, USA

RELEVANT COURSEWORK

- Renewable Energy Sources, Ca' Foscari University 2022	- Environmental and Climate Economics, Ca' Foscari University 2022
- Geographic Information Systems, Ca' Foscari University 2022	- Development Economics Universität Leipzig 2021
- Integrated Assessment of Climate Protection Strategies, Universität Leipzig 2021	- Systems Science and Sustainability, Universität Leipzig Winter 2021
- Analyzing Data With Python, Codecademy 2019	- Physics of Solar Energy, Columbia University 2011
- GIS for Resource and Infrastructure Management, Columbia University 2012	- Fluid Mechanics (Graduate Level) Columbia University 2011
- Field Methods for Environmental Engineering, Columbia University 2012	- Introduction to Atmospheric Science, Columbia University 2010

SELECT PROFESSIONAL EXPERIENCE

05/2017 -
09/2021

Owner, Rebuild Greener!
New Orleans, Louisiana USA

- Planned and carried out whole-home renovations and new "tiny" home construction with a focus on energy efficiency and green building practices
- Worked closely with local and state governments on project permitting, zoning, code compliance, and tax incentives
- Assembled project proposals including basic 3-D models and construction plans to submit to the municipal safety and permitting office

RESEARCH AND ACADEMIC COMPETENCIES	02/2020 - 09/2021	Freelance Web Developer New Orleans, Louisiana USA <ul style="list-style-type: none"> Designed and built a number of reactive and eye catching websites for local small businesses primarily using the React Javascript library Maintained and updated online stores using cloud-based development environments
<ul style="list-style-type: none"> - Deep mathematical background - Skilled in data acquisition - Literature review expertise - Skilled technical writer 	11/2016 - 06/2019	Operations Manager, Parleaux Beer Lab New Orleans, Louisiana USA <ul style="list-style-type: none"> Built a 10bbl brewery from the ground up including tasks in plumbing, wiring, carpentry, and overall process design Installed and maintained a glycol heat pump and chilling system Oversaw a small team coordinating production schedule, graphic design, quality assurance and regulatory compliance
“SOFT” SKILLS		
<ul style="list-style-type: none"> - Strong time management and organizational Skills - Respectful and kind in the face of disagreement - Works well in small teams and courteous of others’ time - Eye for graphic design and keen sense for detail 	09/2013-01/2014	Biological Field Technician, Grasslands Consulting Golden, Colorado USA <ul style="list-style-type: none"> Insured regulatory compliance with the Endangered Species Act at hydraulic fracturing sites in Utah’s Uinta Basin Planned field sweeps to map locations of endangered cacti using Esri’s ArcPad
	07/2012 01/2013	Geodata Analyst, DAAD Rise Professional with Beak Consultants Freiberg, Sachsen, Germany <ul style="list-style-type: none"> Prepared data from local and online sources using ArcMap and ArcCatalog Predicted resource abundance, erosion, and natural disasters using the iterative machine-learning GIS plugin, Advangeo Translated contract bids from English to Spanish
OTHER INTERESTS	11/2011-05/2012	Research Assistant, Columbia Lab for Unconventional Electronics New York, New York, USA <ul style="list-style-type: none"> Developed and built a thin film Ni-Li battery for use in wearable solar cells Programmed a battery testing routine using Python and an Arduino chip
PUBLICATION		
Hannah K. Ross , John Cooney , Megan Hinzman , Samuel Smock , Gary Sellhorst , Ralph Dlugi , Nicole Mölders, Gerhard Kramm. (2014). Wind Power Potential in Interior Alaska from a Micrometeorological Perspective. <i>Atmospheric and Climate Sciences</i> , 4, 100-121. doi:10.4236/acs.2014.41013		