## Alexander C. Michels

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EDUCATION	
Ph.D. in Spatial Informatics University of Illinois at Urbana-Champaign	In Progress
M.S. in Geography and G.I.S. University of Illinois at Urbana-Champaign	In Progress
B.S. in Mathematics and Financial Economics Westminster College	August 2015 - May 2019
EXPERIENCE	
CyberGIS and CyberInfrastructure Researcher CyberGIS Center & Geospatial Information Laboratory (CIGI)  - Conducted hiring searches and interviews and supervised 6 unde  - Lead software developer on CyberGIS-Compute leading a team  - Implemented CVMFS repo to increase reproducibility and speed  - Created a JupyterHub deployment on OpenStack using Terrafor  - Managed mulitple Docker and DockerSwarm-based applications	of undergraduates. d of multiple Jupyter platforms. m and Kubernetes.
Systems Administrator and Software Engineer Titan Radio and WCN 24/7 - Responsible for the infrastructure required to keep the radio and	New Wilmington, PA  May 2018 - May 2019 d television station operating.
<ul> <li>Information Technology Intern</li> <li>Treloar &amp; Heisel</li> <li>Maintained databases and wrote apps for company use in Java,</li> </ul>	New Castle, PA Sept 2018 - Dec 2018
Data Scientist and Informatics Reseacher Institute for Pure and Applied Mathematics at UCLA & Praedica – Built and deployed toolkit in Python to gain business insights fr	- ·
PROJECTS	
CyberGIS-Compute cybergis.github.io/cy  - Typescript server and Python SDK for reproducible, sharable so  - Lead developer managing multiple students working on the Core	
<ul> <li>CyberGIS-Jupyter</li> <li>Platform for reproducible science using JupyterHub on DockerS</li> <li>Redesigned to use Easybuild, Lmod &amp; CVMFS and developed v</li> </ul>	
– Wrote Bash/Python pipeline for access to medical resources. Do	herecovid19.cigi.illinois.edu OI: 10.1186/s12942-020-00229-x
SKILLS	
Data Science: Big Data, G.I.S., Network Science, Git, ML/AI, H	
Languages: Python, Bash, SQL (Postgres, PostGIS, pgRouting),	- '
Technologies: Ansible, Docker, Hadoop, Kubernetes, OpenStack	•
Operating Systems: Linux (Debian/Ubuntu, CentOS/Scientific	), willdows