## 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)  Presented research across multiple journals and conferences.  Hiring for student researcher, post-doc, and research programmer.  Lead software developer on CyberGIS-Compute leading a team of Created a JupyterHub deployment on OpenStack using Terraform  Managed mulitple Docker and DockerSwarm-based applications of Systems Administrator and Software Engineer  Titan Radio and WCN 24/7  Responsible for the infrastructure required to keep the radio and Information Technology Intern	of undergraduates. m and Kubernetes. on Linux VMs. New Wilmington, PA May 2018 - May 2019 television station operating. New Castle, PA
Treloar & Heisel  – Maintained databases and wrote apps for company use in Java, I  Data Scientist and Informatics Reseacher  Institute for Pure and Applied Mathematics at UCLA & Praedicat  – Built and deployed toolkit in Python to gain business insights from	Los Angeles, CA, Inc. June 2018 - Aug 2018
PROJECTS	
<ul> <li>Typescript server and Python SDK for reproducible, sharable sci</li> <li>Lead developer managing multiple students working on the Core</li> </ul>	
<ul> <li>Platform for reproducible science using JupyterHub on DockerSv</li> <li>Redesigned to use Easybuild, Lmod &amp; CVMFS and developed ve</li> <li>WhereCOVID-19</li> </ul>	varm and Kubernetes. ersion using K8s on Openstack. herecovid19.cigi.illinois.edu
- Wrote Bash/Python pipeline for access to medical resources. DO	l: 10.1186/s12942-020-00229-x
SKILLS	
<b>Data Science:</b> Big Data, G.I.S., Network Science, Git, ML/AI, P. Languages: Python, Bash, SQL (Postgres, PostGIS, pgRouting),	
Technologies: Ansible, Docker, Hadoop, Kubernetes, OpenStack,	

Operating Systems: Linux (Debian/Ubuntu, CentOS/Scientific), Windows