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	undergraduates. 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 television station operating.
 Information Technology Intern Treloar & Heisel Maintained databases and wrote apps for company use in Java, P 	New Castle, PA Sept 2018 - Dec 2018 ython, and Visual Basic.
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
CyberGIS-Compute cybergis.github.io/cyb - Typescript server and Python SDK for reproducible, sharable scie - Lead developer managing multiple students working on the Core	
CyberGIS-Jupyter cyl - Platform for reproducible science using JupyterHub on DockerSwa - Redesigned to use Easybuild, Lmod & CVMFS and developed ver	
WhereCOVID-19 wh - Wrote Bash/Python pipeline for access to medical resources. DOI	erecovid19.cigi.illinois.edu [: 10.1186/s12942-020-00229-x
Data Science: Big Data, G.I.S., Network Science, Git, ML/AI, Pa	rallel Programming
Languages: Python, Bash, SQL (Postgres, PostGIS, pgRouting), J Technologies: Ansible, Docker, Hadoop, Kubernetes, OpenStack,	Javascript, C++, R

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