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) - Supervised 4 undergraduate research assistants. Conducted hirin - Lead developer of projects including a Hadoop cluster and Cyber	_
– Worked with Ansible, CVMFS, Docker, Docker Swarm, Kubernet	es, OpenStack, and Terraform.
Systems Administrator and Software Engineer Titan Radio and WCN 24/7	New Wilmington, PA May 2018 - May 2019
- Responsible for the infrastructure required to keep the radio and	television station operating.
Information Technology Intern Treloar & Heisel	New Castle, PA Sept 2018 - Dec 2018
– Maintained databases and wrote apps for company use in Java, I	Python, and Visual Basic.
 Data Scientist and Informatics Reseacher Institute for Pure and Applied Mathematics at UCLA & Praedicat Built and deployed toolkit to gain business insights from unstruc 	·
PROJECTS	
CyberGIS-Compute cybergis.github.io/cybergis.github	
CyberGIS-Jupyter cy	bergisxhub.cigi.illinois.edu
 Platform for reproducible science using JupyterHub on DockerSw Redesigned CJW to use Easybuild & Lmod and developed a vers 	
WhereCOVID-19 wh	nerecovid19.cigi.illinois.edu
– Wrote pipeline to calculate access to medical resources. DOI: 10.	1186/s12942-020-00229-x
SKILLS	
Data Science: Big Data, G.I.S., Network Science, Git, ML/AI, Pa	arallel Programming
Languages: Python, Bash, SQL (Postgres, PostGIS, pgRouting),	Javascript, C++, R
Technologies: Ansible, Docker, Hadoop, Kubernetes, OpenStack,	Terraform

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