

Gretta D. Kellogg

Ithaca, NY 14850 • 814.777.4724 • gretta.kellogg@cornell.edu
<https://www.linkedin.com/in/grettadkellogg/>

Epigenomics Core Facility Director

Serving the Cornell BRC, Managing and delivering high-throughput, reproducible epigenomics services

I emphasize a customer service-oriented approach in my experience as an IT professional and educator. Accomplished in heterogeneous systems engineering, personnel management, and managing multi-million-dollar budgets for complex research initiatives. Proven success in building and maintaining IT infrastructures. Knowledgeable in Agile methodologies and ITIL frameworks and processes. Strong team building and leadership experience for complex deployments. My graduate training was a cross-disciplinary approach to computer-mediated communication where I designed and implemented several relational and non-relational databases supporting asynchronous communication.

Core Competencies:

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| <ul style="list-style-type: none">• Research Administration• Grant Proposal Writing and Funding• Budgeting and Financial Planning | <ul style="list-style-type: none">• Agile Methodologies and Tools• IT Architecture and Infrastructure• ITIL Service Management | <ul style="list-style-type: none">• Continuous Process Improvement• Heterogenous systems engineering and integrations |
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Professional Experience

Cornell University, Ithaca, NY

Epigenomics Core Facility Director | Cornell Institute of Biotechnology, 7/2020 – present

Responsible for developing a new core facility and supporting all aspects of the newly establishing team. Establishing IT infrastructure to leverage high-performance computing solutions for epigenomics data processing and analysis pipelines.

Penn State University, University Park, PA

High Performance Computing Research Engineer | ACI-REF | Institute for Computational & Data Sciences, 7/2019 – 7/2020

As a Research Engineer and ACI-REF, Advanced CyberInfrastructure - Research and Education Facilitator, I have been helping to architect heterogeneous IT solutions, and assisting faculty to leverage high performance computing systems. I support the Institute's various educational outreach and faculty recruitment initiatives.

Program Manager | IT Project Manager | Center for Eukaryotic Gene Regulation, 7/2014 – 7/2019

Perform research administration and management of short- and long-term systems and software development projects for this leading biochemistry laboratory. Managed ~\$2.3M budgets funded by National Institutes of Health (NIH). Supervise and mentor lab team of 20+ members. Purchasing and procurement of IT hardware and specialized equipment.

Selected Contributions:

- Collaborated with faculty researchers to improve project development and achieve grant funding objectives.
- Planned implementation and deployment of research-driven IT infrastructure and research networking.
- Developed several new business processes for quality control and implemented scientifically-driven feedback mechanisms for more reliable and valid research results.
- Engineered the IT systems for the DNA NextGen Illumina sequencing services.
- Received the Eberly College of Science Research Staff Excellence Award, nominated for dedicated and caring leadership while pursuing process improvements and implementing new and innovative solutions.

IT Project Manager | Center for Systems Genomics | Huck Life Sciences, 2011 – 2014

Supported the establishment of the new Center. Successfully engineered IT systems enabling secure shared data transfers and curation of over 140TB data. Managed annual budget of ~\$1.5M for planning projects and resources. Conducted needs assessment and contributed to significant research development as evidenced by 60+ published journal articles, 50+ presentations, and 48+ poster sessions from a newly formed lab.

Selected Contributions:

- Trained for and received ACOR Certified Research Administrator credentials.
- Co-authored three journal articles and four poster presentations.

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IT Project Manager | Applied Information Technologies (ITS), 2008 – 2011

Planned and led a range of development projects for central IT services in support of strategic, university-wide initiatives.

Selected Contributions:

- Coordinated and managed three 100+-member special project teams, schedules, and workloads.
- Oversaw the design, deployment, and maintenance of project and change management software, and services.
- Successfully led and completed large-scale, 18-month project to migrate 7.2 Terabytes over a period of 23 hours.

Additional Experience

Systems Administrator | IT Project Manager | ITS (2005 – 2008)

Systems Analyst | Level III (2003 – 2005)

Instructor | Continuing and Distance Education, State College Area School District (K-12) (2000 – 2003)

Previous experience as

Consultant | Course Reviewer • Penn State World Campus, Harcourt/Addison-Wesley, Monterey, CA

Senior Applications Developer | Web Specialist | Center for Academic Computing • Penn State University, University Park, PA

Education and Credentials

Certifications

Excellence in Management, Penn State Executive Programs
ACES, ACOR Certification and Research Administrator Education

Professional Development & Training

UNIX and Linux Security, Hands-On, COBIT Certified Training	ITIL Certified Training, v3 Foundations
Information Technology Infrastructure Library (ITIL) Service Management	IT Project Management
Agile Project Management and Programming Development	SANS Windows Security Professional
Agile Programming for Software Project Management	LISA, VMware ESX Server, Kerberos 5
PMBOK Certified Training, Project Management II & III	Microsoft Exchange, Microsoft SMS/MOM

Honors and Awards

2015 Eberly College of Science Research Staff Excellence Award
2011 IT Collaboration Award, Penn State University
2008 Staff Advisory Council Award, Penn State University

Professional Affiliations

2010 Anita Borg Institute for Women In Technology	2015 Educause
2011 Association for Computing Machinery (ACM) and ACM-W	2017 PMI, Project Management Institute
2013 Certified Research Administrator, ACOR	2018 WHPC, Women in High Performance Computing

Master of Arts, Computer-Mediated Communication | Penn State University, University Park, PA G.P.A. 4.00

Evaluated computer-mediated communication and groupware research. IBM Awarded corporate funding for research of \$24,000 to partner and receive professional training with Lotus Corp and IBM. Developed custom database applications in support of asynchronous learning and communication environments. Successfully designed, implemented and delivered online Speech Communication courses in 1996-1997.