

Daniel E. Cook

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Education

Northwestern University

Ph.D. Graduate Student – Interdisciplinary Program in Biological Sciences (IBiS)

Evanston, IL

Expected 2017

University of Iowa

B.S. Biology with Honors

Iowa City, IA

May 2010

Experience

Andersen Lab, Northwestern University

Graduate Student

Evanston, IL

2014–Present

- Developed Genome-wide association portal for *C. elegans* community.
- Developed bioinformatic pipelines population resequencing analysis of *C. elegans*.
- Creation and maintenance of laboratory website.

Ober Lab, University of Chicago

Research Assistant

Chicago, IL

2012–2013

- Assisted with development of databases for phenotypic and genotypic data.
- Helped disclose carrier status to individuals.

Murray Lab, University of Iowa

Research Assistant

Iowa City, IL

2009–2012

- Wrote and published statistical, data-management, and graphing programs.
- Conducted geographic analysis of Iowa newborn screen data.
- Collected Human Placental tissue for genetic, epigenetic, and expression studies.

Skills

Projects: [GitHub.com/danielecook](https://github.com/danielecook)

Programming: Python, Bash, R, Stata, Travis C.I. **Database:** SQL, BigQuery, Google Datastore

Web: HTML, Javascript, CSS, Django, Flask, Mediawiki, Wordpress

Genetic Analysis: BWA, Samtools, Bcftools, Plink, Galaxy

Cloud/Cluster: AWS, Google Cloud, Slurm

General: L^AT_EX, sketch

Professional Activities

- **2015** - NSF-GRFP data workshop
- **2015** - Teaching Assistant, Genetic Analysis
- **2014** - Contributed to development of computational bootcamp for incoming graduate students within the IBiS program.

Honors and Awards

- **2015** - IBiS Travel Award (\$975)
- **2014** - National Science Foundation Graduate Research Fellowship
- **2006** - University of Iowa National Scholars Award

Publications

2015 DYRK1A controls the transition from proliferation to quiescence during lymphoid development by destabilizing Cyclin D3

Thompson, Benjamin J, Rahul Bhansali, Lauren Diebold, **Cook, Daniel E**, Lindsay Stolzenburg, Anne-Sophie Casagrande, Thierry Besson, Bertrand Leblond, Laurent Désiré, and Sébastien Malinge

The Journal of experimental medicine. PMID: 26008897 DOI: 10.1084/jem.20150002.

2013 The heritability of metabolic profiles in newborn twins.

Alul, Farah Y, **Cook, Daniel E**, Oleg a Shchelochkov, Lauren G Fleener, Stanton L Berberich, Jeffrey C Murray, and Kelli K Ryckman

Heredity 110.3. PMID: 23149456 DOI: 10.1038/hdy.2012.75.

CCMATCH: Stata module to match cases and controls using specified variables

Cook, Daniel E

Statistical Software Components.

Generating Manhattan plots in Stata

Cook, Daniel E, Kelli R Ryckman, and Jeffrey C Murray

Stata Journal 13.2.

Clinical and environmental influences on metabolic biomarkers collected for newborn screening

Ryckman, Kelli K., Stanton L. Berberich, Oleg a. Shchelochkov, **Cook, Daniel E.**, and Jeffrey C. Murray

Clinical Biochemistry 46.1-2. PMID: 23010448 DOI: 10.1016/j.clinbiochem.2012.09.013.

The influence of maternal disease on metabolites measured as part of newborn screening

Ryckman, Kelli K, Oleg A Shchelochkov, Daniel E Cook, Stanton L Berberich, Sara Copeland, John M Dagle, and Jeffrey C Murray

The Journal of Maternal-Fetal & Neonatal Medicine 26.14. PMID: 23550828 DOI: 10.3109/14767058.2013.791267.

2012 Replication of clinical associations with 17-hydroxyprogesterone in preterm newborns

Ryckman, Kelli K., **Cook, Daniel E.**, Stanton L. Berberich, Oleg a. Shchelochkov, Susan K. Berends, Tamara Busch, John M. Dagle, and Jeffrey C. Murray

Journal of Pediatric Endocrinology and Metabolism 25.3-4. PMID: 22768660 DOI: 10.1515/jpem-2011-0456.

Presentations

2015 Genome-Wide and Species-Wide Variation in *C. elegans* Reveals Association of Telomere Length With Population Differences in *pot-2*

Talk – International Worm Meeting 2015, UCLA.

2012 Mapping Newborn Screen Data: A Geographic Exploration

Poster – Pediatric Academic Societies Meeting, Boston, MA.