# ABIGAIL ELIZABETH, PHD

I am energized when I generate ideas, synthesize diverse perspectives, and navigate uncharted landscapes. I have ten years' experience across industry and academia and in quality assurance, the life sciences, and application development. For the past four years, I prototyped Share Science, a suite of tools that position information to mutually benefit authors and the scientific community.

## CONTACT

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🏠 Georgia, United States
Abigail Elizabeth

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## SKILLS

*Product development*

| User experience | ISO 9001 |

Communicate across disciplines

Generate & stimulate new ideas

App design & development

Unite customer and technical requirements

Synthesize new knowledge

Attend to detail    Track the big picture

Distill complex problems

*Data management, stewardship & governance*

- Liaise with diverse stakeholders
- FAIR principles
- Standard data formats (e.g. ISA, DATS)
- Public ontologies (e.g. OBI, EFO)
- Wrangling & ETL processes
- Community standards (e.g. CIMR, MIxS)

*Programming*

**R** ●●●●●○
**JavaScript** ●●●●●○
**SQL** ●●●●●○
**LaTex** ●●●●●○
**bash** ●●●●●○
**Python** ●●●●○○
**HTML** ●●●○○○

*Operating Systems*
Linux, MacOS, Windows

*Software & Tools*
**Data management** ●●●●●
(e.g. GSHEETS, MySQL, JSON, BioPortal)
**Visualization** ●●●●●
(e.g. R/ggplot, D3.js, Cytoscape)
**Data handling/analysis** ●●●○○
(e.g. HPC, Bioconductor, SnakeMake)

## ⬡ PRODUCTS

Share Science with Sheets for Google Sheets™

👥 A. Elizabeth

📅 2023      📖 Google Workspace Marketplace      🔗 App

## ⚙ EXPERIENCE

📅 09/2023 - present
📍 Complex Carbohydrate Research Center, University of Georgia,Georgia, USA
### Postdoctoral Research Associate

- Enable diverse scientists to share information in the Network for Advanced NMR via Share Science with Sheets, R/SquareCube, and Share Science
- Promote uptake of Share Science with Sheets

📅 08/2019 - 08/2023
📍 Complex Carbohydrate Research Center, University of Georgia,Georgia, USA
### Graduate Research Assistant

- Prototyped and distributed Share Science with Sheets, a Google Sheets add-on that enables scientists to share the provenances of physical materials
- Promoted insight into biological experiments via R/SquareCube, an upcoming R package that drives information to mutually benefit the authors of information and the scientific community
- Established new avenues to share complex scientific information via Share Science, a conceptual framework that targets exchanging the provenance of physical material in the sciences

📅 09/2018 - 12/2018
📍 Novo Nordisk Foundation Center for Protein Research, Copenhagen, Denmark
### Bioinformatics Intern

- Automated transforming expression data from miRNA into co-expression networks and knowledge of pathways

📅 05/2018 - 08/2018
📍 Hampshire College, Massachusetts, USA
### Bioinformatics Intern

- Identified sources of unwanted variation in RNA-seq data
- Expanded awareness of missing critical metadata in public repositories

📅 05/2017 - 08/2017
📍 College of Charleston, South Carolina, USA
### Computational Genomics Intern

- Advanced knowledge of distinction between patients with lung cancer who relapse and those who do not relapse

📅 02/2016 - 08/2016
📍 Patheon (Astrix Technology Group), South Carolina, USA
### Quality Assurance Specialist

- Collaborated across customers and internal departments to ensure consumer safety via compliance with cGMP and FDA guidelines

📅 03/2012 - 02/2016
📍 RI Textile, South Carolina, USA
### Quality Assurance Assistant

- Lead internal audits to gain ISO-9001 certification

# 🎓 EDUCATION

📅 08/2023
📍 University of Georgia, Georgia, USA    **PhD in Bioinformatics**

📅 05/2019
📍 Hampshire College, Massachusetts, USA    **BA in Bioinformatics**

## PREPRINTS

Reciprocal human-machine learning could transform how scientists share information

👥 A. Elizabeth

📅 2023    📖 Open Science Framework      🔗 Preprint

Software that target metadata determine if science is at sea or in a fishbowl

👥 A. Elizabeth

📅 2023    📖 Open Science Framework      🔗 Preprint

Research mutualists are required to upraise research parasites

👥 A. Elizabeth

📅 2023    📖 Open Science Framework      🔗 Preprint

Enable authors to share the provenance of biological material in spreadsheets

👥 A. Elizabeth

📅 2023    📖 Open Science Framework      🔗 Preprint

## POSTER PRESENTATIONS

Share Science with Sheets positions metadata to mutually benefit authors and the scientific community

👥 **A. Elizabeth**, A. Shaver, B. Garcia, G. Gouveia, A. Edison

📅 2023    📖 Bio-IT World Conference & Expo      🔗 Poster

Integrating spreadsheets and databases to advance capturing complex metadata with regard to metabolomics reporting guidelines

👥 **A. Elizabeth**, A. Shaver, B. Garcia, G. Gouveia, A. Edison

📅 2022    📖 Research in Computational Molecular Biology

Tracking material processing and regarding metadata guidelines in metabolomics with an integration of spreadsheets and databases

👥 **A. Elizabeth**, A. Shaver, B. Garcia, G. Gouveia, A. Edison

📅 2021    📖 NIH Common Fund Metabolomics Consortium

Entryway to adaptable, task-specific metadata management for metabolomics

👥 **A. Elizabeth**, A. Shaver, B. Garcia, G. Gouveia, A. Edison

📅 2020    📖 Metabolomics Association of North America

## AWARDS

🏆 Coppinger Endowment Grant (Aug 2018)

🏆 Sherman Fairchild Foundation Summer Stipend Program in the Sciences (June 2018)

🏆 Dr. Lucy Summer Scholars Student Research Grant (May 2018)

🏆 Denice O'Neill Award for Div II and III Research and Travel (Jan 2018 & March 2018)

🏆 Dr. Lucy Conference Fund (Jan 2018)

🏆 Joshua Reck Memorial Fund for Div II and III Projects (Jan 2018)

🏆 Justine Salton Memorial Fund (Jan 2018)

🏆 National Science Foundation BioREU Grant (Jan 2018)

🏆 Pope Foundation for Div II and III projects (Jan 2018)

🏆 Emerging Scientist Award (Sept 2016)