

Gage Rowden, M.S.

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github.com/gage1145

Education

Texas Tech University, B.S. in Biology	Sept 2011-May 2016
Texas Tech University, M.S. in Biotechnology	Sept 2016-May 2018

Experience

Lead Technical R&D Scientist , Priogen Corporation – St. Paul, MN	Jan 2024-present
<ul style="list-style-type: none">Reduced time to render user buddy lists by 75% by implementing a prediction algorithmIntegrated iChat with Spotlight Search by creating a tool to extract metadata from saved chat transcripts and provide metadata to a system-wide search databaseRedesigned chat file format and implemented backward compatibility for search	
Researcher IV , University of Minnesota – St. Paul, MN	Aug 2022-present
<ul style="list-style-type: none">Designed a UI for the VS open file switcher (Ctrl-Tab) and extended it to tool windowsCreated a service to provide gradient across VS and VS add-ins, optimizing its performance via cachingBuilt an app to compute the similarity of all methods in a codebase, reducing the time from $\mathcal{O}(n^2)$ to $\mathcal{O}(n \log n)$Created a test case generation tool that creates random XML docs from XML SchemaAutomated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts	

Publications

Nanoparticle-enhanced RT-QuIC (nano-QuIC) diagnostic assay for misfolded proteins	2023
Peter R Christenson, Manc Li, Gage R Rowden , Peter A Larsen, Sang-Hyun Oh 10.1021/acs.nanolett.3c01001	
Sensitive detection of chronic wasting disease prions recovered from environmentally relevant surfaces	2022
Qi Yuan, Gage R Rowden , Tiffany M Wolf, Marc D Schwabenlander, Peter A Larsen, Shannon L Bartelt-Hunt, Jason C Bartz 10.1016/j.envint.2022.107347	
Elucidation of tropane alkaloid biosynthesis in Erythroxylum coca using a microbial pathway discovery platform	2022
Benjamin G Chavez, Prashanth Srinivasan, Kayla Glockzin, Neill Kim, Olga Montero Estrada, Jan Jirschitzka, Gage R Rowden , Jonathan Shao, Lyndel Meinhardt, Christina D Smolke, John C D'auria 10.1073/pnas.221537211	
Comparison of chronic wasting disease detection methods and procedures: implications for free-ranging white-tailed deer (Odocoileus virginianus) surveillance and management	2022
Marc D Schwabenlander, Gage R Rowden , Manc Li, Kelsie LaSharr, Erik C Hildebrand, Suzanne Stone, Davis M Seelig, Chris S Jennelle, Louis Cornicelli, Tiffany M Wolf, Michelle Carstensen, Peter A Larsen 10.7589/JWD-D-21-00033	
RT-QuIC detection of CWD prion seeding activity in white-tailed deer muscle tissues	2021
Manc Li, Marc D Schwabenlander, Gage R Rowden , Jeremy M Schefers, Christopher S Jennelle, Michelle Carstensen, Davis Seelig, Peter A Larsen	

10.1038/s41598-021-96127-8

Morphometric and genetic variation in 8 breeds of Ethiopian camels (*Camelus dromedarius*)

2018

Yoseph W Legesse, Christopher D Dunn, Matthew R Mauldin, Nigte Ordonez-Garza, **Gage R Rowden**, Yoseph Mekasha Gebre, Mohammed Y Kurtu, Seid Mohammed Ali, Wondmagegne D Whibesilassie, Michael Ballou, Melaku Tefera, Gad Perry, Robert D Bradley

10.1093/jas/sky351

Projects

Multi-User Drawing Tool

github.com/name/repo

- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

Synchronized Desktop Calendar

github.com/name/repo

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

Custom Operating System

2002

- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

Technologies

Languages: C++, C, Java, Objective-C, C#, SQL, JavaScript

Technologies: .NET, Microsoft SQL Server, XCode, Interface Builder