

**William Gladstone**  
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## EDUCATION

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- 2013**      **Wesleyan University**      **Middletown, CT**  
Ph.D. Biology with a focus in Bioinformatics.  
*Dissertation:* Autocorrelation Syntax of Eukaryotic Protein Coding Sequences.  
*Advisers:* Michael Weir (Biology) and Michael Rice (Computer Science).
- 2001**      **Wesleyan University**      **Middletown, CT**  
B.A. Computer Science, Economics

## WORK EXPERIENCE

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- 2018 – Present**    **Freelance Technology Consultant**      **New York, NY**  
*University Of Pittsburgh Dept. Of Chemical Engineering* - Software Development (2018-present)
  - Feature improvements to molecular modeling software Avogadro.
  - React based plugin repository*Cannataro Park Ave. Financial* - Software Development (2018-present)
  - React based data visualization software
  - Data architect for migration of client and financial data to new PostgreSQL base system*Count It Labs* - Electronics Prototyping & Systems Operations (2018)
  - Arduino prototype for data visualization meter
  - Systems migration of Ruby Rails application
- 2012 – 2018**    **Alley Interactive**      **New York, NY**  
*Digital Strategist & Product Owner* (2016-2018)
  - Oversee multiple projects and manage budget, timeline, team members, and clients.
  - Determine technical approach executed by internal developer team.
  - Manage client relationships.
  - Manage internal team members with Project Managers using Scrum and Kanban methodologies.*Technical Account Executive* (2015-16)
  - Pursue leads and win new business.
  - Work with sales team to provide accurate estimates and scope to clients.
  - Write proposals and statements of work for incoming leads and projects.
  - On board developer team when project transitions from sales to development.*Lead Developer* (2013-15)
  - Lead developer for scalable WordPress projects for clients including Time Inc, Macmillan Publishing & Nicole Miller*Software Developer* (2012-13)
  - Backend development of complex and large scale WordPress sites.
  - Clients include The NY Post & Rogers Digital Media
- 2010 – 2013**    **Freelance Web Developer/Consultant**      **New York, NY**  
*Irrive.com* - Amazon Web Services consultant (2012)
  - Provided technical expertise for migration of site to AWS platform.*Fame Theory LLC*—Web Developer & Systems Administrator (2011-2013)
  - Redesigned, implemented and maintained new back end architecture on Amazon Web Services.
- 2006 – 2010**    **Bock Interactive**      **Hinesburg, VT**  
*E-commerce Programmer, Systems & Database Administrator*

- Maintained online perl-based shopping cart, inventory data, product pages, order records, and hardware for e-commerce company.

**1999 - 2006**      **Wesleyan University**      **Middletown, CT**

*Academic Computing Programmer* - Information Technology Services (2002- 2006)

- Worked as lead developer of a team that created teaching software to be used in the classroom.

*Systems/Database Administrator & Developer* - Biology Department (2001 – 2004)

- Developed and maintained a genomics database. Developed Web UIs for data interactions.

*Systems Administrator - Physics Department* (2001)

- UNIX Administration. Supported computational science lab.

*Web Administrator and Designer* (2000 – 2001)

- Created and maintained websites for Admissions and Parent Program.

## ACTIVE OPEN SOURCE CONTRIBUTIONS

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**Turin Project** (<http://github.com/turinproject/plugin-repository>)

Author of GatsbyJS based all in one scientific application plugin repository. Automation of adding Github open source plugins via graphql api calls with minimal maintenance.

**Photonfill** (<https://github.com/alleyinteractive/photonfill>)

Author of the WordPress plugin. Photonfill is a Developer-focused WordPress plugin that allows for easy implementation of responsive images using picturefill while integrating the powerful free CDN of Jetpack Photon.

**TMSConnect** (<https://github.com/alleyinteractive/tmsconnect>)

Author of the WordPress plugin. TMSConnect allows museums to synchronize the data stored in The Museum System (TMS) by Gallery Systems and make collections available over the web using WordPress.

## RESEARCH EXPERIENCE

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**2004 – 2013**      *Programmer, Database Administrator, and Data Analyst—Dept. of Biology*

- Use bioinformatic approaches on translation initiation start sites to identify potentially misannotated start sites in numerous organisms.
- Analysis of secondary structure and its role in translation initiation. Collaborated in development of GUI for visualization of secondary structure.

**2005 – 2006**      *Programmer & Database Administrator—Dept. of Biology*

- Analysis of Illumina Paired-end reads metagenomic data set.
- Parse and align large numbers of prokaryotic metagenomic sequences for ecotype analysis.

## AWARDS & HONORS

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**2008 – 2011**      *Recipient of NIH Biophysics Predoctoral Research Training Grant*

Awarded to promising students of eligible institutions with strong quantitative backgrounds who seek training in the basic biomedical sciences and related behavioral and clinical fields.

## PUBLICATIONS

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Rice, M., Gladstone, W., Weir, M. *Relational databases: A transparent framework for encouraging biology students to think informatically*. Cell Biology Education, 2004: 3, 241-252

Gladstone, W., Weir, M., Rice, M. *Autocorrelation Reveals Species-Specific Syntax of Open Reading Frames* (Unpublished)

References available upon request.