

Alex Handler Wagner, Ph.D. – Curriculum Vitae

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Personal Profile

My ongoing work is to model genomic evidence and assertions for interpreting genomic variation, to help us in the federated generation and search of genomic knowledge. This has involved active participation across many relevant professional societies, and I currently hold advisory or leadership roles in several organizations, including the Variant Interpretation for Cancer Consortium (VICC) (as Director), the Global Alliance for Genomics and Health (GA4GH) (steering committee), the Atlas for Variant Effects Alliance (CVI and DCD committees), and ClinGen (Somatic Cancer, Cancer Variant Interpretation, and Data Platform work groups). I also co-led the development of the GA4GH [Variation Representation Specification](#), and led the 2021 manuscript first describing that work. Ongoing support for this research is provided by a Genomic Innovator Award from the National Human Genome Research Institute.

Along the way, I have participated in the development several precision medicine web tools, particularly in the cancer domain. These include the [Drug-Gene Interaction Database](#), the database of Clinical Interpretations of Variants in Cancer (CIViC) knowledgebase, and the [VICC meta-knowledgebase](#).

Research Experience

Aug 2020 - Present [Institute for Genomic Medicine, Nationwide Children's Hospital](#)
Principal Investigator

Aug 2020 - Present [Departments of Pediatrics and Biomedical Informatics, the Ohio State University](#)
Assistant Professor

Jun 2019 - Jul 2020 [Division of Oncology, Washington University in St. Louis](#)
Instructor
Advisors: Obi L. Griffith, Ph.D.; Timothy J. Ley, M.D.

Jan 2015 - May 2019 [McDonnell Genome Institute, Washington University in St. Louis](#)
Postdoctoral Research Scholar
Advisors: Obi L. Griffith, Ph.D.; Ramaswamy Govindan, M.D.

Aug 2010 - Dec 2014 [Coordinated Laboratory for Computational Genomics, University of Iowa](#)
Graduate Research Assistant
Advisors: Terry A. Braun, Ph.D.; Edwin M. Stone, M.D., Ph.D.

Education

2010-2014 Ph.D, Computational Genetics - [University of Iowa](#)
GPA: 3.90

2010-2013 Graduate Certificate, Bioinformatics - [University of Iowa](#)
GPA: 3.96

Software Engineering Skills

- **Programming Languages**

Ruby - MRI 1.8.7, 1.9.2

ASP.NET, C#, VB.NET

PHP

Java/Scala

- **Web Development**

HTML5, CSS3/SASS, JavaScript/CoffeeScript/jQuery

Ruby on Rails v3.1

Test:Unit, RSpec, Cucumber, Selenium - automated testing frameworks

Apache/Nginx Web Servers

- **Miscellaneous**

Microsoft SQL Server 2000/2005 - database architecture and administration

Transact-SQL - data definition and manipulation

SQL Profiler - performance tuning and debugging

MySQL Server

CVS, DARCS, git - source version control

Interests

- **Badminton, Tennis, Running, Cycling, Sailing**

- **Travelling**

- **Creative Writing**

- **Photography**

- **Car Mechanics**

Referees

Name	Bill Lumbergh
Company	Initech Inc.
Position	Vice President
Contact	bill@initech.com

Name	Michael "Big Mike" Tucker
Company	Burbank Buy More
Position	Store Manager
Contact	mike@buymore.com