

Benjamin H Glick

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Strengths/Skills

Planning, problem solving, tactics, motivating or inspiring others, anchor of a team or group, ability to develop CS skills, speed at grasping new and complex concepts. Technical skills include python, c, c++, databases, javascript, html/css, java, functional programming including lisp and haskell, network programming, systems software, and \LaTeX .

Education

- 2016-Present** Student (BA, Physics & Mathematics/Computer Science, Expected 2020) - Lewis and Clark College
- 2012-2016** Student (High School Diploma, 2016) - The University of Chicago Laboratory High School

Recent Experience

- May 2018 -** General Electric Transportation
Aug. 2018 *Digital Technology Leadership Program Intern*
Member of a production cybersecurity team. Designed prototype and proof of concept software and hardware systems. Designed and implemented software solutions for locomotive control computers and the GoLinc platform relating to data collection, encryption, management, and movement. Developed internal tools for security and cost audits of product teams.
- June 2017 -** Swift Project, Argonne National Laboratory / Computation Institute, University of Chicago
Present *Undergraduate Student Developer*
The Swift research group creates and maintains high-performance computing tools for scientific and data-intensive computing. With Swift, I develop, maintain, and manage tools to make data-intensive and computationally demanding tasks easy to use, secure, and scalable in a variety of computing environments from multicore computers to some of the largest supercomputers in the world. I contribute to development of live projects with active scientific users as well as prototypes for future projects.
- Jan 2018 -** Watzek Library, Lewis and Clark College
Present *Digital Initiatives Assistant*
Watzek Digital Initiatives handles Lewis & Clark's digital collections and infrastructure, as well as supporting research and academic computing on campus. As DI assistant, I manage operation of LC's high-performance computing infrastructure, design solutions to help professors solve digital problems, and assist in maintenance of the library's digital information resources.
- Jan 2018 -** Lewis and Clark College
May 2018 *Teaching Assistant*
Teaching assistant for Lewis & Clark's CS 393 Computer Networks course. My duties include teaching classes, holding office hours, providing advice to students, and assisting with design of coursework.

Selected Publications, Talks, and Presentations

Nov. 2018 EduHPC '18/ SC '18

Paper

Article describing high-performance computing workflow optimization platform, specifically designed to provide an HPC environment conducive to educational computing accepted to Workshop on Education and High Performance Computing 2018 (EduHPC 18), at SC '18.

Ben Glick and Jens Mache. 2018. *Jupyter Notebooks and User-Friendly HPC Access* Workshop on High Performance Computing and Education, 2018 (EduHPC '18), at the International Conference for High Performance Computing, Networking, Storage and Analysis (SC '18) (Nov. 2018)

Oct. 2018 Consortium of the Computing Sciences in Colleges, Northwest Region.

Poster and Award

Poster describing computational platform for providing researchers and students with access to high-performance computing resources without requiring technical knowledge about the underlying HPC software and hardware presented at CCSC-NW meeting and won best student poster award for 2018 meeting.

Oct. 2018 Journal of Computing Sciences in Colleges

Journal Article

Paper describing an open-source course curriculum and additional teaching materials accepted to the Northwest regional Conference of the Consortium of the Computing Sciences in Colleges. Paper presents an interactive course meant to be either taught or used on a self-guided basis. Paper will be published in Journal of the Computing Sciences in Colleges.

Ben Glick and Jens Mache. 2018. *Using Jupyter Notebooks to Learn High-Performance Computing*. J. Comput. Sci. Coll. 34, 1 (October 2018), 180-188. (Oct. 2018)

Aug. 2018 The International Conference on Parallel Processing

Paper

Poster and Paper describing an extensible ecosystem of accessibility tools for convenient HPC use without complex command line skills.

Glick, B.H. and Mache, J. An Extensible Ecosystem of Tools Providing User Friendly HPC Access and Supporting Jupyter Notebooks. In *Proceedings of The International Conference on Parallel Processing*. (Aug. 2018). <http://oaciss.uoregon.edu/icpp18/views/includes/files/pos107s1-file1.pdf>.

May 2018 Lewis & Clark College Faculty Technology Institute

Oral Presentation

Talk introducing the applications and opportunities associated with High Performance Computing, focused on how LC faculty may be interested in HPC.

Apr. 2018 Lewis & Clark College Festival of Scholars and Artists 2018

Oral Presentation

Talk introducing the applications and opportunities associated with High Performance Computing, specifically relating to how and why Lewis & Clark students, staff and faculty might utilize HPC.

Mar. 2018 Oregon Academy of Science

Abstract for Oral Presentation

Work relating to Accessible High-Performance Computing published at Oregon Academy of Science.

Glick, B.H. and Mache, J. Building an Accessible Web-Based Frontend for High-Performance Clusters. In *Proceedings of the Oregon Academy of Science*. (Mar. 2018). DOI: 10.13140/RG.2.2.24328.11528

Nov. 2017 IEEE and ACM SIGHPC

Poster

Work relating to cloud computing infrastructure published at SC 2017.

Glick, B.H., Babuji, Y.N., and Chard, K. 2017. Scalable Parallel Scripting in the Cloud. In *Proceedings of the International Conference for High Performance Computing, Networking, Storage and Analysis (SC '17)*. (Nov. 2017). 2 Pages. DOI: 10.13140/RG.2.2.20048.81922