Henry Wandover

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Education

Bard College *September 2021 – May 2025*
BA in Computer Science, with a minor in Political Studies

- **Coursework:** Algorithms (Anderson), Design of Programming Languages (McGrail), Discrete Mathematics (McGrail), Labor and Democracy (Inouye), Principles: Computing Systems (Anderson), Software Development (Barr)

Technical College High School Pickering Campus *September 2019 – June 2021*
Digital Media Production

Technologies

Languages: C, C++, Java, Python, OCaml, JavaScript / Typescript (HTML/CSS)
Libraries: SDL, SvelteKit, NumPy
Operating Systems: Linux, Windows
Tools: Shell, Git, CMake, Valgrind

Experience

Research Assistant *Annandale-on-Hudson, New York*
Bard College *September 2023 – May 2025*

- Assisted Dr. Theresa Law with her ongoing experiment on the ability of robotic agents to interrupt the trend of "groupthink" in cases of human decision-making.
- Deployed a Svelte web app for the purpose of collecting data in a study prior to the in-person experiment.
- Played a "confederate," a researcher who is not a true participant, in the in-person baseline experiment.

Computer Science Search Committee *Annandale-on-Hudson, New York*
Bard College *November 2024 – December 2024*

- Collaborated with a small group of students and computer science professors to evaluate and recommend candidates applying for a faculty position at Bard.
- Attended candidates' teaching demonstrations, as well as presentations on their current and future research interests, in order to assess their interactions with a class and gauge whether they would fit in with the Bard community.
- Made a decision on two candidates who would start the next academic year and presented my reasons for those choices at the penultimate committee meeting.

Office Intern *Kingston, New York*
New York State Assembly Office of Assembly Member Sarahana Shrestha *September 2023 – April 2024*

- Attended and led canvas sessions for community outreach on potential legislation and mainly Central Hudson-related concerns.
- Worked the phones in the office, both answering constituent questions/concerns and reaching out to other offices about collaboration.
- Learned lessons in organizational practices in an office setting, from collaborating on different projects to making everyone feel welcome and comfortable.
- Performed data entry tasks using Excel.

Team Lead *Annandale-on-Hudson, New York*
Bard Guilds *September 2023 – October 2023*

- Organized a construction team of other students at Bard and facilitated communication between the team and our supervisor.
- Constructed a 14-foot bridge in place of one that had fallen into disrepair.
- Learned how to use tools such as a jackhammer and a tamper.
- Used a range of tools and techniques to properly flatten the ground, section off the available lumber, and create a sturdy bridge that should last a century.

Projects

Filesystem Organization Daemon *Hosted on GitHub*

- A GNU Linux utility whose sole purpose is to organize a user's home directory based upon their specifications in Porter's config.
- Utilizes a section of my C library for daemons, or background tasks, that properly follow the POSIX standard for daemon applications.
- The whole project was written in pure C99 and utilizes minimal system memory. Can be built from scratch with GNU Make or by downloading a binary with a GPG signature.

Hasqtan *Hosted on GitHub*

- Utilizes "lazy" interpretation, as opposed to "eager," which delays evaluation of an expression until it is needed—or, better, applied.
- Maintains the syntax of Haskell, which serves as the implementation language.
- Intended as a project to get familiar with programming language development yet still ensures Turing completeness.
- Required using Haskell's own homegrown tools for lexing and parsing: Alex and Happy, respectively.

Subkind Classes for Links *Hosted on GitHub*

- Links is a functional, web-domain language that provides a single implementation for front-end and server code, as well as database queries.
- The goal was to provide a type-safe implementation of ad hoc polymorphism, in other words, function overloading; consider "`+`," which needs a function for both whole numbers and decimals.
- This was accomplished in two ways, the latter being a reinterpretation of Haskell's type classes to instead work with subkinds as the unit of focus.
- After getting a grasp with the code base and its style, the decision was made to use kinds, the higher-order set above types, for the contribution, as it fit within the mold Links had created.
- For a much more detailed look, the full paper is on my site, the Bard archive, or directly.

Activities

Activities and societies: Varsity Men's Tennis Team (as well as SAAC), Lab monitor (September 2024 - May 2025), Regional Representative for ISO, Bard Debate Team

Honors

Book Awards for Excellence in Language Learning – Hebrew, Bard College Jewish Studies Program
May 9, 2024