

# Jonathan Pool

## *Developer of accessible web applications*



### *Contacts*

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I have developed web and database applications in JavaScript and other languages. I have tested numerous websites for accessibility and reported written findings to website administrators as a pro bono service. I am currently adding accessibility features to existing applications and developing new ones that comply with international accessibility standards.

### *Profiles*

Network	Username	URL
Github	jrpool	<a href="https://github.com/jrpool">https://github.com/jrpool</a>
LinkedIn	jonathanpool	<a href="https://www.linkedin.com/in/jonathanpool/">https://www.linkedin.com/in/jonathanpool/</a>
MDN Web Docs	Jonathan Pool	<a href="https://developer.mozilla.org/en-US/profiles/JonathanPool">https://developer.mozilla.org/en-US/profiles/JonathanPool</a>
Google Scholar	JonathanPool	<a href="https://scholar.google.com/citations?user=qSNjYhQAAAAJ&amp;hl=en&amp;oi=ao">https://scholar.google.com/citations?user=qSNjYhQAAAAJ&amp;hl=en&amp;oi=ao</a>

### *Work history*

- **Company:** The Long Now Foundation
  - **Position:** Project Director
  - **Website:** <http://longnow.org>
  - **Start date:** 2012-01-01
  - **End date:** 2016-12-19
  - **Synopsis:** Director of the PanLex project
  - **Highlights**
    - Developed PostgreSQL database of 3.1 billion lexical translations
    - Developed UIs and SEO for database
    - Recruited steering committee and advisory committee
    - Hired and supervised 3 computational linguists and 1 linguist
    - Directed 2 summer internship programs with 45 interns
    - Established project office
- **Company:** Centerplex
  - **Position:** Proprietor
  - **Website:** <http://stulta.com/misc/cx/>
  - **Start date:** 1993-06-16
  - **End date:** 2004-06-11
  - **Synopsis:** Owner and operator of 4 office buildings with 100 tenants
  - **Highlights**
    - Developed web application and UI for tenant-initiated leasing
    - Procured, configured, and managed 4-building wireless network with T1 WAN and Cisco LAN
    - Hired and supervised 20 employees
    - Upgraded physical plant to enhance ADA accessibility
    - Procured and managed lighting upgrade with 1.5-year payback
- **Company:** University of Washington
  - **Position:** Assistant and Associate Professor
  - **Website:** <http://www.washington.edu>
  - **Start date:** 1977-09-16
  - **End date:** 1993-06-15
  - **Synopsis:** Member of faculty of Department of Political Science
  - **Highlights**

- Published research articles, collections, and conference papers
- Had visiting appointments at University of Paderborn and University of Bielefeld, Germany
- Taught courses in research methods, decision theory, and language policy
- Served on university committees
- **Company:** State University of New York at Stony Brook
  - **Position:** Assistant Professor
  - **Website:** <http://www.stonybrook.edu>
  - **Start date:** 1971-01-01
  - **End date:** 1977-06-15
  - **Synopsis:** Member of faculty of Department of Political Science
  - **Highlights**
    - Published research articles and conference papers
    - Had visiting appointments at Stanford University, McGill University, and University of Mannheim, Germany
    - Taught courses in research methods, comparative politics, and language policy
    - Developed instructional software

## Volunteering

- **Organization:** Berkeley Town House Cooperative Corporation
  - **Position:** Director and Secretary
  - **Website:** <http://www.berkeleytownhouse.com>
  - **Start date:** 2011-05-24
  - **End date:** 2011-12-06
  - **Synopsis:** Managed and improved access to corporate documentation
  - **Highlights**
    - Digitized 52 years of corporate board minutes
    - Made 13,000 records web-accessible to authorized members
    - Documented extent and cost of construction defect, permitting corporation to recover \$224,415 from contractors
- **Organization:** Peace Corps
  - **Position:** Volunteer
  - **Website:** <https://www.peacecorps.gov>
  - **Start date:** 1964-06-15
  - **End date:** 1966-06-15
  - **Synopsis:** Taught ESL in Nevşehir and İstanbul, Turkey
  - **Highlights**
    - Achieved 4.5 Foreign Service Institute score in Turkish
    - Published articles in Turkish periodicals
    - Authored language textbook for speakers of Turkish
- **Organization:** Operation Crossroads Africa
  - **Position:** Volunteer
  - **Website:** <http://www.operationcrossroadsafrica.org>
  - **Start date:** 1963-06-15
  - **End date:** 1963-08-15
  - **Synopsis:** Worked on a binational team constructing a community center in Nsoatre, Ghana
  - **Highlights**
    - Visited Côte d'Ivoire, Togo, Benin, and Nigeria

## Education

- **Institution:** Learners Guild
  - **Area:** full-stack web development
  - **Study type:** Vocational training and apprenticeship
  - **Start date:** 2017-05-01
  - **End date:** 2018-02-16
  - **Courses**
    - full-stack web application development
    - JavaScript
    - Node.js
    - PostgreSQL
    - Express
    - web accessibility
- **Institution:** University of Washington
  - **Area:** computer science and linguistics
  - **Study type:** undergraduate and graduate courses

- **Start date:** 2004-03-29
- **End date:** 2007-06-01
- **GPA:** 3.97
- **Courses**
  - computer programming (Java)
  - data structures and algorithms
  - user-interface design
  - artificial intelligence
  - syntax
  - morphology
  - semantics
  - lexical ambiguity
  - computational linguistics
  - grammar engineering
  - human rights law and philosophy
- **Institution:** The University of Chicago
  - **Area:** political science
  - **Study type:** M.A. and Ph.D.
  - **Start date:** 1966-09-01
  - **End date:** 1971-04-30
  - **Courses**
    - computational political analysis
    - survey research on public opinion
    - political science methodology
    - political philosophy
    - comparative politics
- **Institution:** Harvard University
  - **Area:** government
  - **Study type:** B.A.
  - **Start date:** 1960-09-01
  - **End date:** 1964-06-30
  - **Courses**
    - quantitative analysis of judicial behavior
    - political philosophy
    - comparative politics

## *Grants, awards, and prizes*

- **Title:** Computer Simulation in Multilingual International Studies
  - **Date:** 1983-07-15
  - **Awarder:** University of Maryland
  - **Synopsis:** Cross-national policy simulation for students of politics
- **Title:** Computer Equipment for Experimental Political Science Research
  - **Date:** 1978-09-15
  - **Awarder:** National Science Foundation
  - **Synopsis:** Laboratory for study of political behavior; co-principal investigator with Donald R. Matthews

## *Publications*

- **Name:** Countering language attrition with PanLex and the Web of Data
  - **Publisher:** Semantic Web Journal
  - **Release date:** 2015-08-01
  - **Website:** <https://old.panlex.org/pubs/etc/plwebdata-201404.pdf>
  - **Synopsis:** Transformation of PanLex database to RDF, linkage with Lexvo and DBpedia, and publication as Linked Data; co-author with Patrick Westphal and Claus Stadler
- **Name:** PanLex and LEXTRACT: Translating all Words of all Languages of the World
  - **Publisher:** Coling 2010: 23rd International Conference on Computational Linguistics
  - **Release date:** 2010-07-08
  - **Website:** <http://aclweb.org/anthology/C/C10/C10-3010.pdf>
  - **Synopsis:** Research on expansion of coverage of PanLex, a lemmatic translation resource, via semi-automatic dictionary scraping; co-author with Timothy Baldwin and Susan M. Colowick
- **Name:** Lemmatic Machine Translation
  - **Publisher:** Machine Translation Summit XII
  - **Release date:** 2009-08-30
  - **Website:** <http://www.mt-archive.info/MTS-2009-Soderland.pdf>

- **Synopsis:** Panlingual Translator, a prototype lemmatic machine-translation system; co-author with Stephen Soderland, Christopher Lim, Mausam, Bo Qin, and Oren Etzioni
- **Name:** Disambiguating for the Web: A Test of Two Methods
  - **Publisher:** K-CAP 2007: Fourth International Conference on Knowledge Capture
  - **Release date:** 2007-10-31
  - **Website:** <http://turing.cs.washington.edu/papers/disamweb.pdf>
  - **Synopsis:** Paraphrasal disambiguation was more effective than truth-conditional disambiguation in an experiment with 386 subjects; co-author with Susan M. Colowick
- **Name:** "The Official Language Problem"
  - **Publisher:** American Political Science Review, 85, 495–514
  - **Release date:** 1991-06-15
  - **Website:** <https://old.panlex.org/pubs/etc/offlangprob-apsr1991.pdf>
  - **Synopsis:** Proves in a mathematical model that it is possible to discover a fair and efficient policy on official languages even when language groups are willing to misrepresent the costs they would incur to use a nonnative official language
- **Name:** The Distribution of Foreign Language Skills as a Game Equilibrium
  - **Publisher:** Game Equilibrium Models, ed. Reinhard Selten, vol. 4, Social and Political Interaction (Berlin: Springer)
  - **Release date:** 1991-01-15
  - **Website:** <https://old.panlex.org/pubs/etc/flsge-abs.html>
  - **Synopsis:** Proofs of relationships among learning aptitude, language difficulty, and personal benefit in a game model, suggesting that those who learn the hardest languages get the most profit; co-author with Reinhard Selten

## Skills

- **Name:** Web Development
  - **Level:** various
  - **Details**
    - HTML
    - CSS
    - Javascript
- **Name:** Languages
  - **Level:** various
  - **Details**
    - JavaScript
    - Perl
    - Java
    - bash
    - 68000 Assembly
    - VBA
    - APL
- **Name:** Scopes
  - **Level:** intermediate
  - **Details**
    - full stack
    - back end
    - front end
    - APIs
    - SPAs
- **Name:** Back-end
  - **Level:** various
  - **Details**
    - Node.js
    - NPM
    - Express
    - pg
    - pg-promise
    - bcrypt
    - solr
    - DBI
- **Name:** Databases
  - **Level:** intermediate
  - **Details**
    - PostgreSQL
    - PL/pgSQL
    - SQL Server

- FileMaker Pro
  - MongoDB
  - migrations
- **Name:** Front-end
  - **Level:** various
  - **Details**
    - HTML
    - CSS
    - JQuery
    - Cheerio
    - Bootstrap
    - EJS
    - Pug
    - Materialize
- **Name:** Content and version management
  - **Level:** intermediate
  - **Details**
    - git
    - svn
    - Github
    - Gitlab
    - Bitbucket
    - SourceForge
    - WordPress
- **Name:** Quality control
  - **Level:** junior
  - **Details**
    - ESLint
    - mocha
    - chai
    - Selenium Webdriver
    - Chrome Developer Tools
- **Name:** Accessibility
  - **Level:** junior
  - **Details**
    - WCAG 2.1
    - ARIA
    - Chrome/aXe/Siteimprove/WAVE/OpenWAX/Tenon.io audits
    - ADA Title III
- **Name:** Internationalization
  - **Level:** intermediate
  - **Details**
    - Unicode
    - CLDR
    - ISO 639
    - PanLex API
- **Name:** Web servers
  - **Level:** intermediate
  - **Details**
    - Apache httpd
    - nginx
- **Name:** Mail servers
  - **Level:** junior
  - **Details**
    - Postfix
    - sendmail
    - SendGrid Web API
- **Name:** Remote hosts
  - **Level:** intermediate
  - **Details**
    - Amazon AWS (EC2
    - S3
    - Glacier)

- OVH
- **Name:** OS's
  - **Level:** intermediate
  - **Details**
    - Ubuntu
    - RHEL
    - OS X
    - Cisco IOS
- **Name:** Configuration management
  - **Level:** junior
  - **Details**
    - Puppet
- **Name:** Files
  - **Level:** intermediate
  - **Details**
    - FineReader
    - Acrobat
    - iconv
    - Atom
    - nano
    - ed
    - sed
    - bbEdit/TextWrangler
    - GraphicConverter
- **Name:** CAD
  - **Level:** intermediate
  - **Details**
    - VectorWorks
- **Name:** Statistics
  - **Level:** junior
  - **Details**
    - SPSS
- **Name:** Office apps
  - **Level:** intermediate
  - **Details**
    - Apache OpenOffice
    - Apple iWork
    - Microsoft Office
- **Name:** Collaboration
  - **Level:** intermediate
  - **Details**
    - Slack
    - Asana
    - Wrike
    - Trello
    - Egnyte

## *Languages known*

- **Name:** English
  - **Level:** native
- **Name:** Esperanto
  - **Level:** professional
- **Name:** German
  - **Level:** working
- **Name:** Turkish
  - **Level:** working
- **Name:** French
  - **Level:** practical
- **Name:** Norwegian (Bokmål)
  - **Level:** practical
- **Name:** Russian

- **Level:** practical
- **Name:** Latin
  - **Level:** fragmentary

## *Interests*

- **Name:** language design
  - **Details**
    - controlled Languages
    - artificial languages
    - disambiguation
- **Name:** human rights
  - **Details**
    - universality
    - humanitarian intervention
    - migration rights
    - genocide
    - civil liberties
    - transparency
    - quasi-municipality democracy
- **Name:** social choice
  - **Details**
    - voting design
    - language choice
    - rational mediation

## *References*

- **Name:** Learners Guild
  - **Reference:** Instructors and colleagues during 2017–2018 enrollment as trainee-apprentice (on request)
- **Name:** The Long Now Foundation
  - **Reference:** Supervisors and colleagues during 2012–2016 tenure as PanLex Project Director (on request)

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