Alex Garnett

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Work

Simon Fraser University, Digital Preservation and Data Curation Specialist; 2012-2016, later Research Data Management and Systems Librarian; 2016 - Present.

Implementing and overseeing use of university research data management system; collaborating with Compute Canada on data harvesting and HPC-scale digital preservation platforms; working with faculty on creating data management plans to comply with new mandates and best practices; maintaining an open-source repository stack; liaising with external partners (Harvard Institute for Quantitative Social Science & Stanford University MediaX) on related initiatives; developing helper applications and migration toolchains for SFU Archives.

SocialFlow, Data Scientist; 2012.

Performed social network analysis of real-time Twitter data for impact maximization.

UBC Faculty of Arts Instructional Support IT, Data Scientist; 2011-2012.

Refined student assessment metrics through analysis of learning management system logs.

Neuroethics Canada, Graduate Researcher; 2010-2012.

Measured the impact of research; content analysis, network visualization, grant writing.

City of Vancouver Archives, Digital Project Archivist; 2011.

Cleaned up and re-structured archival records database; refined user specifications.

Microsoft TechNet, Support Contractor; 2009.

Maintained developer forums, providing remote reference to developers and users.

NextWerk vTeams, Development Coordinator; 2009.

Acted as the server technician and client liaison for a distributed web development team.

Education

University of British Columbia, Master of Library and Information Science; 2009-2010.

University of Connecticut, Bachelor of Arts in Cognitive Science; 2006-2009.

Publications and Presentations

Garnett, A., Winter., M., and Simpson, J. (2018). Checksums on Modern Filesystems, or: On the Virtuous Consumption of CPU Cycles. *The International Conference on Digital Preservation (iPres).* http://www.sfu.ca/~garnett/ipres18.pdf

Garnett, A. (2018). Relational Databases as Repository Objects. *Open Repositories.* Bozeman, MT.

Castro, E., Crosas, M., Garnett, A., Sheridan, K., and Altman, M. (2017). Evaluating and Promoting Open Data Practices in Open Access Journals. *Journal of Scholarly Publishing.* doi:10.3138/jsp.49.1.66

Garnett, A. and Trann, T. (2017). The Canadian Federated Research Data Repository: A Modestly Large Collaboration. *Open Repositories.* Brisbane, AU.

Garnett, A., Aufreiter, M., Buchtala, O., and Alperin, J.A. (2017). Introducing Texture: An Open Source WYSIWYG Javascript Editor for JATS. *JATS Conference.* Bethesda, MD.

Trann, T. and Garnett, A. (2016). Building a Scalable National Repository Infrastructure for Canada. *CANHEIT.* Edmonton, AB.

Garnett, A. and De Meo, M. (2016). Using a GPU to Accelerate Digital Preservation Workflows. *Open Repositories.* Dublin, IE. http://www.sfu.ca/~garnett/or16.pdf

Garnett, A. and Graebner, C. (2015). Evaluating the Suitability and Sustainability of "Local Dropbox" Solutions to Complement a Research Data Repository. *Open Repositories.* Indianapolis, IN.

Garnett, A. (2015). OMERO: Finally, file-level preservation for natural scientists. *IASSIST.* Minneapolis, MN.

Garnett, A., Alperin, J.A., and Willinsky, J. (2015). The PKP XML Service and meTypeset: a new Word-to-JATS solution. *JATS Conference.* Bethesda, MD.

Garnett, A. (2014). Piping Hot: Little Bins in Big Workflows. *Access Conference.* Calgary, AB.

Garnett, A. (2014). Office File Formats: Seriously, what should we do? *Open Repositories.* Helsinki, FI. (Poster)

Castro, E., and Garnett, A. (2014). Linking Journals and Repositories Using OJS and Dataverse. *Dataverse Community Meeting.* Boston, MA. (Reprised in part at International Digital Curation Conference 2014 in San Francisco, CA, and IASSIST 2014 in Toronto, ON.)

Castro, E., and Garnett, A. (2014). "Building a Bridge Between Journal Articles and Research Data: The PKP-Dataverse Integration." *The International Journal of Digital Curation.* doi:10.2218/ijdc.v9i1.311

Garnett, A., Alperin, J.A., and Willinsky, J. (2014). Return of the Son of Automated Publishing: A Free, Modular Solution for Academic Typesetting. *MediaX Demonstration Day.* Stanford, CA. (Reprised from PKP Conference 2013 in Mexico City, MX.)

Bell, A., Garnett, A., Graebner, C., and Harder, G. (2013). Barn Raising in a Virtual World. *Coalition for Networked Information Fall Membership Meeting.* Washington, DC.

Garnett, A. (2013). Building a Local Dropbox Alternative to Facilitate Data Deposit. *Access Conference.* St. John's, NL.

Garnett, A. (2013). Finally, an Automated XML Production Workflow. *Beyond the PDF 2.* Amsterdam, NL.

Garnett, A., Lee, G., and Illes, J. (2013). "Publication Trends in Neuroimaging of Minimally Conscious States." *PeerJ.* https://peerj.com/articles/155/.

Willinsky, J., Garnett, A., and Pan-Wong, A. (2012). "Refurbishing the Camelot of Scholarship: How To Improve the Digital Contribution of the PDF Research Article." *Journal of Electronic Publishing.*

Garnett, A., Whitworth, E., and Fazzio, S. (2012). Doctor Who meets Doctor Zhivago: Modeling Serendipity on Extreme Divergence. *CSCW 2012 Workshop on Design, Influence, and Social Technologies.*

Nathan, L. and Garnett, A. (2011). Privacy Research & Real-World Design: Is there an Elephant in the Room? *CHI 2011 Workshop on Privacy for a Networked World.*

Garnett, A., Whiteley, L., Piwowar, H., Rasmussen E., and Illes, J. (2011). "Neuroethics and fMRI: Mapping a Fledgling Relationship." *PLoS ONE.* http://dx.plos.org/10.1371/journal.pone.0018537.

Schneider, O. and Garnett, A. (2011). ConsentCanvas: Automatic Texturing for Improved Readability in End-User License Agreements. *Association for Computational Linguistics Conference.*

Workshops

- **Introduction to Python Programming.** taught several times annually since 2014, through the SFU Research Commons, Code4Lib BC, Software Carpentry, and the UBC Digital Humanities Salon series.

- **Introduction to Shell Scripting.** taught in 2015 through Code4Lib BC.

- **Introduction to Text Parsing and Regular Expressions.** taught in 2016 through SFU Library Research Bazaar.

Other Meetings and Conferences Attended

Research Data Alliance Plenary 2017, Barcelona, ES.

Winter 2016 Compute Canada TECC Meeting, Toronto, ON.

IslandoraCamp BC 2015, Vancouver, BC.

Association of College and Research Libraries Meeting 2015, Portland, OR.

North American DDI Conference 2014, Vancouver, BC.

Research Data Access and Preservation Conference 2014, Baltimore, MD.

Open Repositories Conference 2013, Charlottetown, PEI.

CARL Data Management Workshop 2013, Toronto, ON.

Memberships and Working Groups

CARL Portage - FRDR Discovery Working Group -- Co-chair

CARL Portage Discovery Expert Group

CARL Portage Preservation Expert Group

Skills and Miscellanea

- General software development, primarily (and preferably) in Python, with special expertise in text parsing

- Legacy file format migration (if you need a database migrated from Macintosh floppies c. 1988 to CSV, I'm your man)

- Statistical modeling and visualization using PyCUDA and R

- Database and server management and general dev ops provisioning (I really love bash)

- Knowledge of, opinions about, and ample parsing and indexing of common research metadata standards (DDI, MODS; XSLT)

- Proficiency with VisiCalc and Hypercard

Awards and Grants

- Stanford MediaX, "Publish-on-Demand" Project Grant, 2012, 2013

- Society for Scholarly Publishing, New Members Travel Grant, 2011

- American Society for Information Science and Technology, New Leaders Award, 2010-11