





# Brian R. Hall

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EDUCATION	 <b>Sc.D. in Information Systems and Communications</b> <b>2011 - 2014</b> Robert Morris University, Pittsburgh, PA Dissertation: <i>A Synthesized Definition and Analysis of Computer Ethics</i>
	 <b>M.S. in Information Technology</b> <b>2007 - 2010</b> Kettering University, Flint, MI
	<b>Graduate Study in History (Reform Movements)</b> <b>2004</b> Indiana State University, Terre Haute, IN
	 <b>B.S. in Information Technology</b> <b>2002 - 2004</b> Indiana State University, Terre Haute, IN <i>Cum Laude</i>
	 <b>A.A.S. in Computer Information Systems</b> <b>2001 - 2002</b> Lake Land College, Mattoon, IL <i>Summa Cum Laude</i>

## TECHNICAL SKILLS & INTERESTS

- C/C++ & Python
- x86/x86\_64 Assembly
- Microcontroller Programming
- 3D Modeling & Printing
- Web/Services
- COBOL
- Database Platforms
- Watchmaking
- Computer Architecture
- Text Mining
- Software Engineering
- Computing Education
- Computing Ethics
- Information Theory
- History & Social Movements
- LEGO

## ACADEMIC EXPERIENCE



### Champlain College **2010 - Present**

- ◇ **Program Director**, Computer Science & Innovation **2017 - Present**
- ◇ **Professor**, ITS Division **2022 - Present**
- ◇ **Associate Professor**, ITS Division **2016 - 2022**
- ◇ **Assistant Professor**, ITS Division **2010 - 2016**

#### Teaching

- CCC 412 College Capstone (CSI)
- CSI 440 Software Requirements Engineering
- CSI 370 Computer Architecture
- CSI 330 Software Development Methodologies
- CSI 320 Global IT & Ethics
- CSI 240 Advanced Programming (C++)
- CSI 180 Innovation I: Technology Sandbox
- CSI 140 Introduction to Programming (C++)

#### Past Teaching

- MIT 540 Managing Innovation (Graduate)
- MIT 505 Project Management (Graduate)
- MIT 500 Foundations of IT Management (Graduate)
- CIT 265 Information Systems
- CIT 210 Hardware & Architecture
- CIT 140 Systems Software
- CIT 135 Computer Theory (w/Python)
- CIT 130 Introduction to Networking & Security
- WEB 125 Web Development

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ACADEMIC  **Indiana State University** 2004  
EXPERIENCE   ◇ **Teaching Assistant**, Department of History, Advisor: Richard Schneirov, Ph.D.  
(CONTINUED)       • HIST 336 1960s: Counterculture and Protest

ACADEMIC  **Champlain College**  
SERVICE       ◇ **Grants**  
                    • NSF EPIC #2331431 - \$400,000 2023

- ◇ **Curriculum Development**
- Computer Science & Innovation (CSI) major updates
  - Data Analytics major and minor
  - Software Engineering concentration for CSI major, 4 courses
  - CSI 370 Computer Architecture
  - CSI 320 Global IT & Ethics
  - ITS 380 Science, Technology and Fiction
  - Managing Information Systems (MIS) minor; CIT 265 Information Systems; CIT 365 Enterprise Architecture; CIT 140 Systems Software

- ◇ **Committees**
- Faculty Senate Executive Committee 2023
  - Faculty Evaluation Committee 2019 - Present, Chair 2023
  - Academic Affairs Committee 2014 - 2016
  - College Competency Committee, Faculty co-chair 2013 - 2018
  - NEASC Self-study Committee (Standards 8 & 9) 2013 - 2015
  - Institutional Review Board (IRB) 2012 - 2014
  - Curriculum Committee 2011 - 2012

- ◇ **Searches**
- Assistant/Associate Professor, Computer Science 2023
  - Assistant/Associate Professor, Data Analytics 2022 - 2023
  - Assistant Professor, Computer Science 2019 - 2020
  - Assistant Professor, Computer Science 2016
  - Dean, Division of Information Technology & Sciences 2016
  - Assistant/Associate Professor, Computer Science (3 positions) 2015 - 2016
  - Assistant/Associate Professor, Computer Science 2015
  - Assistant/Associate Professor, Marketing (2 positions) 2014 - 2015
  - Assistant/Associate Professor, Game Programming 2014
  - Provost and Chief Academic Officer 2014
  - Assistant/Associate Professor, Mobile Development 2013 - 2014
  - Team Leader, Leahy Center for Digital Investigation (LCDI) 2011

- ◇ **Miscellaneous**
- Re-imagining science curriculum working groups 2022 - Present
  - Assistant Department Chair 2015 - 2016
  - Student Advising, CSI majors
  - Faculty Advisor, ACM student chapter - SGA computing club
  - Faculty Senate & ITS Leadership Team
  - Prospective and accepted student events, Local elementary school outreach

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- INDUSTRY EXPERIENCE**  **InSpace** **2020 - Present**  
Founding Partner & Advisor, InSpace Proximity, Colchester, VT
- ◇ Founding partner and advisor overseeing various aspects of product content and feature development with a focus on ideation and quality control.
-  **Wolfram Research** **2005 - 2010**  
Systems Engineer, Wolfram Research, Champaign, IL
- ◇ Provided infrastructure, server, client, web, database, application, network services, and user support for Wolfram Research and Wolfram|Alpha, including domestic and international offices. Main responsibilities in technical administration: developing, implementing, and maintaining servers and applications.
-  **Casey Tool & Machine, Inc.** **2001 - 2005**  
Quality Control Engineer, Casey, IL
- ◇ Created and maintained a quality control database and interface to organize, analyze, and report product quality in all manufacturing departments. Performed routine audits of manufactured products.
-  **Eastern Illinois University** **Winter 2001 - 2002**  
COBOL and SQL Programmer, Charleston, IL
- ◇ Assisted in the implementation of an online time-card system as part of a programming team, which included extensive programming in COBOL as well as SQL and JCL. A database system was also designed as a secondary project.
-  **Independent Technology Consultant and Programmer** **Since 2000**  
Here and There
- ◇ Worked on many independent and research related tasks for individuals and businesses. Extensive use of web technologies HTML, CSS, and XML. Expert knowledge of Assembly, C/C++, Python, COBOL, and SQL. Expert knowledge of Apple systems, devices, and applications. Advanced knowledge of Microsoft and Linux systems and applications. Expert knowledge of servers, clients, networks, and services.
- PROJECTS**  **Watch Complications**
- ◇ I am a watch enthusiast, reviewer, and self-trained maker. [Ten Six Watches](#) is my watch company. [Watch Complications](#) is the name of my website and [YouTube channel](#). I spend a fair amount of time creating helpful watch content and making custom watches and components for clients.
-  **Tidbyt Programming**
- ◇ I enjoy writing a variety of applets for the Arduino based desktop display. Apps can be found on my [GitHub](#).
-  **WordSnapper**
- ◇ A text mining application written in C++. Does all kinds of cool stuff at blistering speed such as frequency analysis, bigram analysis, semantic analysis, bilateral filtering, stemming, trimming, visualization, and several other features. The goal of the application is to provide the researcher with semantic insight into analyzed texts (e.g., counts, word relationships, themes).

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INTELLECTUAL PROPERTY Hall, Brian R. WordSnapper, Text Mining Application. US Copyright, 2014.

## PUBLICATIONS **Books**



Hall, B. R., & Slonka, K. J. (2020). *Assembly Programming and Computer Architecture for Software Engineers* (2nd Ed.) Burlington, VT: Prospect Press.



Hall, B. R., & Slonka, K. J. (2018). *Assembly Programming and Computer Architecture for Software Engineers*. Burlington, VT: Prospect Press.

## Journal Articles ([click to view Google Scholar page](#))

1. Hall, B. R. (2014). A synthesized definition of computer ethics. *ACM Computers and Society*, 44(3), 21-35. doi:10.1145/2684097.2684102
2. Hall, B. R. (2013). Technology and thinking: A conflict. *The International Journal of Technology, Knowledge, and Society*, 8(4), 119-120. <https://doi.org/10.18848/1832-3669/CGP/v08i04/56313>
3. Hall, B. R. (2012). Google critique: An application of depoliticization theory. *Technology in Society*, 34(3), 251-255. doi:10.1016/j.techsoc.2012.07.003
4. Hall, B. R. (2012). Information, communication, and technology: Like industry, like academia? *CISConvergence Journal*, 1(1), 7-14.
5. Hall, B. R. (2012). An ethics whirlwind: A perspective of the digital lifestyle of digital natives and initial thoughts on ethics education in technology. *Information Systems Education Journal*, 10(1), 4-12. <http://isedj.org/2012-10/>
6. Hall, B. R. (2011). IS/IT education vs. business education: The plight of social collapse in technical business environments. *Information Systems Education Journal*, 9(2), 55-64. <http://isedj.org/2011-9/>

## Selected Conference Papers and Invited Talks

1. Hall, B. R. (2015). A Snapshot of the Subject Matter of Computing Ethics. In *Proceedings of the 21<sup>st</sup> IEEE International Symposium on Technology and Society (ISTAS '15)*, Dublin, IE. IEEE. doi: 10.1109/ISTAS.2015.7439396
2. Chen, W. K., & Hall, B. R. (2013). Applying software engineering in CS1. In *Proceedings of the 18<sup>th</sup> Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE '13)*, Canterbury, UK. ACM. doi:10.1145/2462476.2462480
3. Little, J. C., Lind, M. R., Hall, B. R. (2011). The tenth strand: Proposing a separate course in societal and ethical issues for information systems majors. *The Proceedings of the Information Systems Education Conference 2011*, v.28 n.1775, Wilmington, NC.
4. Lind, M. R., Hall, B. R., Chen, W., Babb, J. S., Pauli, W. E., Reynolds, J., Schwieger, D., Surendran, K. (2011). Model curriculum “wiki” birds of a feather panel session. *The Proceedings of the Information Systems Education Conference 2011*, v.28 n.1770, Wilmington, NC.
5. Hall, B. R. (Fall 2013). Computer ethics introduction, *Senior Seminar*. Lecture conducted from The University of Vermont, Burlington, VT.

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## PUBLICATIONS **Public Discourse**

(CONTINUED)

1. Hall, B. R. (2015). *cdecl* versus *stdcall* on x86 architecture: But really a discussion of how function calls use registers and stack. *Technical Papers*. (TP No. 2). <http://www.brianrhall.net/technicalpapers/TP2.pdf>
2. Hall, B. R. (2014). An introduction to using SOAP and REST services for data retrieval. *Technical Papers*. (TP No. 1). [Code Samples Provided] <http://www.brianrhall.net/technicalpapers/TP1.pdf>
3. Hall, B. R. (2013). Ellul and I “connected”: A technologist’s response to a philosopher’s propositions concerning LinkedIn. *Discourse Papers*. (DP No. 3). <http://www.brianrhall.net/discoursepapers/DP3.pdf>
4. Hall, B. R. (2012). Technology and thinking: A conflict. *Discourse Papers*. (DP No. 2). <http://www.brianrhall.net/discoursepapers/DP2.pdf>
5. Hall, B. R. (2012). ICT: The core business of industry. *Discourse Papers*. (DP No. 1). <http://www.brianrhall.net/discoursepapers/DP1.pdf>
6. Hall, B. R. (2011). “Whoa...rock and roll”: Going airborne via amplification. *Technology & Back to the Future: “This is Heavy”*. Technology &.
7. Hall, B. R. (2010, September 16). Campus overload - Dear frosh: I wish I’d known about life’s twists. *Campus Overload*. The Washington Post [Web].
8. Hall, B. R. (n.d.). In the EDSIG ACM/AIS Model Curriculum Wiki: [http://www.edsigbh.org/curwiki/index.php?title=Ethics\\_in\\_the\\_Model\\_Curriculum](http://www.edsigbh.org/curwiki/index.php?title=Ethics_in_the_Model_Curriculum)

## CODE

(CLICK ITEM)

- ◇ <https://github.com/brianrhall/>
- ◇ Creating R plots with C++ using Xcode.
- ◇ [L<sup>A</sup>T<sub>E</sub>X Syllabus Template](#). #1 Google hit for search term “latex syllabus template”.
- ◇ SOAP and REST code examples. Based on TP1: An introduction to using SOAP and REST services for data retrieval.

## PEER

REVIEWING

- ◇ [Syllabus \(www.syllabusjournal.org\)](http://www.syllabusjournal.org) 2012 - 2020
- ◇ The International Journal of Technology, Knowledge, and Society 2013
- ◇ Information Systems Education Conference/Journal (ISECON/ISEDJ) 2010, 2011 and Conference on Information Systems Applied Research (CONISAR)

## PROFESSIONAL MEMBERSHIPS

- ◇ Association for Computing Machinery (ACM) + SIGCAS Current
- ◇ Institute of Electrical and Electronics Engineers (IEEE) Past
- ◇ Association of Information Technology Professionals (AITP) Past
- ◇ Education Special Interest Group for IS education (EDSIG) Past

## HONORS & AWARDS

- ◇ **Champlain College**, Faculty Development Fellowship Fall 2015
- ◇ **Alpha Iota Mu**, National Honor Society for Info. Systems Lifetime Member
- ◇ **NSF**, Computer Science, Engineering, and Mathematics Scholarship 2002 - 2004
- ◇ **Indiana State University**, Transfer Scholarship 2002

## *Brian R. Hall*

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### ITEMS OF NOTE

- ◇ I regularly travel to Maui and Armenia.
- ◇ From November 2008 to January 2009 I took a break from work and life and traveled to Europe. I spent most of my time in Italy, but also traveled through France, Switzerland, and the Netherlands.
- ◇ I enjoy cooking/baking shows, British dramas, Star Wars, Fraiser, MadMen, The Big Bang Theory, The Walking Dead, and 2% milk. I also enjoy golfing, reading, music, and all things watches.

### LANGUAGES

English (fluent), Armenian (intermediate).

### WEBSITES

<https://www.brianrhall.com>  
<https://watchcomplications.com>  
<https://www.youtube.com/@watchcomplications>