SCOTT D. DEXTER

17 October 2015

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EDUCATION

1998	Ph.D.	Computer Science and Engineering, The University of Michigan.
1996	M.S.	Computer Science and Engineering, The University of Michigan.
1993	B.S.	Computer Science and Mathematics, Denison University, *summa cum laude.*

EMPLOYMENT

Brooklyn College, CUNY, Department of Computer and Information Science.

2009–present	Professor.
2011–2012	Tow Professor.
2008-2011	Director of the Core Curriculum.
2004–2009	Associate Professor.
1998–2004	Assistant Professor.

AWARDS AND HONORS

2013	Fellow, Ethyle R. Wolfe Institute for the Humanities, Brooklyn College. One-year research leave.
2012	Tow Professorship, recognizing "distinguished contributions in teaching, scholarship and the advancement of the college's mission," Brooklyn College. $25,000 stipend.
2008	ACRL *Choice* Outstanding Academic Title award for *Decoding Liberation.*
2007	Brooklyn College Division of Student Affairs "All Things are Possible" award.
1993	Inducted into Sigma Xi.
1993	Inducted into Phi Beta Kappa.
1992	Inducted into Pi Mu Epsilon.

GRANTS

Federal

2011   NSF-EESE. Collaborative Research: Understanding and Preparing Future Computer Professionals for the Ethical Complexities of a Diverse World. $399,082; $92,822 to Brooklyn College. www.nsf.gov/awardsearch/showAward?AWD_ID=1135163.

2009   NSF-DUE. Collaborative Research: Linear Algebra in New Environments (LINE). Scott Dexter (PI) and L. Cooley (co-PI). $193,232; $72,613 to Brooklyn College. www.nsf.gov/awardsearch/showAward?AWD_ID=0837331.

2009   NSF-CreativeIT. Dynamic Cognitive Analyses of Creativity and Aesthetics in Open-Source Software Development. Scott Dexter (co-PI) and A. Kozbelt (PI). $698,992. www.nsf.gov/awardsearch/showAward?AWD_ID=0855861.

Internal

2004   PSC-CUNY Research Award. A Robust Indexing Technique for Image Retrieval. $3,200.

2003   PSC-CUNY Research Award. Visualizing Cryptographic Protocol Flaws. $3,500.

2001   PSC-CUNY Research Award. Access Granted: Demystifying Computer Security. $3,500.

2000   PSC-CUNY Research Award. Towards Automated Analysis of Electronic Commerce Protocols. $3,500.

1999   PSC-CUNY Research Award. An Automated Tool for Security Analysis of Cryptographic Protocols. $4,500.

PUBLICATIONS

Books

2007   Samir Chopra and Scott Dexter. *Decoding Liberation: The Promise of Free and Open Source Software.* New York: Routledge. www.sci.brooklyn.cuny.edu/~bcfoss/DL/

       Choice Outstanding Academic Title 2008.

       Reviewed in *Minds and Machines; Theory, Culture & Society*; *Choice*; *APA Newsletter on Philosophy and Computers*; *Resource Center for Cyberculture Studies*; *IEEE Technology and Society Magazine*.

2003   D. Arnow, S. Dexter and G. Weiss. *An Introduction to Programming Using Java: An Object-Oriented Approach, 2nd Edition.* Reading, Massachusetts: Addison Wesley.

Refereed Journal Articles

2014   A. Kozbelt, S. Dexter, D. Meredith, M. Dolese, and J. Ostrofsky. "Regressive imagery in creative problem solving: Comparing verbal protocols of expert and novice visual artists and computer programmers." *Journal of Creative Behavior.* doi 10.1002/jocb.64.

2014   Laurel Cooley, Draga Vidakovic, William O. Martin, Scott Dexter, Jeff Suzuki and Sergio Loch. "Modules as Learning Tools in Linear Algebra." *PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies*, Volume 24, Number 3, 257-278. doi [10.1080/10511970.2013.867293](10.1080/10511970.2013.867293).

2013   S. Dexter and A. Kozbelt. "Free and Open Source Software (FOSS) as a Model Domain for Answering Big Questions about Creativity." *Mind & Society* Volume 12, Number 1. June. doi [10.1007/s11299-013-0125-5](10.1007/s11299-013-0125-5).

2012   A. Kozbelt, S. Dexter, A. Seidel and M. Dolese. "The Aesthetics of Computer Code: A Quantitative Exploration." *Psychology of Aesthetics, Creativity, and the Arts*, Volume 6, Number 1, 57-65. February. doi [10.1037/a0025426](10.1037/a0025426).

2011   E. Buchanan, J. Aycock, S. Dexter, D. Dittrich and E. Hvizdak. "Computer Science Security Research and Human Subjects: Emerging Considerations for Research Ethics Boards." *Journal of Empirical Research on Human Research Ethics: An International Journal,* Volume 6, Number 2, 71-83. June. doi [10.1525/jer.2011.6.2.71](10.1525/jer.2011.6.2.71).

2011   S. Dexter, A. Seidel, M. Dolese, and A. Kozbelt. "On the Embodied Aesthetics of Code." *Culture Machine 12.* February. www.culturemachine.net/index.php/cm/article/view/438/.

2011   S. Chopra and S. Dexter. "Free Software and the Economics of Information Justice." *Ethics and Information Technology*, Volume 13, Number 3, 173–184. September. doi [10.1007/s10676-010-9226-6](10.1007/s10676-010-9226-6).

2010   W. Martin, S. Loch, L. Cooley, S. Dexter, and D. Vidakovic. "Integrating Learning Theories and Application-Based Modules in Teaching Linear Algebra." *Linear Algebra and Its Applications*, Volume 432, Number 8, 2089–2099. April. doi [10.1016/j.laa.2009.08.030](10.1016/j.laa.2009.08.030).

2009   S. Chopra and S. Dexter. "Free Software, Economic 'Realities,' and Information Justice." *ACM SIGCAS Computers and Society,* Volume 39, Issue 3. December. (Selected papers from CEPE 2009: The Eighth International Conference on Computer Ethics—Philosophical Enquiry.) doi [10.1145/1713066.1713067](10.1145/1713066.1713067).

2009   S. Chopra and S. Dexter. "The Freedoms of Software and Its Ethical Uses." *Ethics and Information Technology*, Volume 11, Number 4, 287–297. December. doi [10.1007/s10676-009-9191-0](10.1007/s10676-009-9191-0).

2007   S. Chopra and S. Dexter. "Free Software and the Political Philosophy of the Cyborg World." *ACM SIGCAS Computers and Society*. Volume 37, Issue 2. November. (Selected papers from CEPE 2007: The Seventh International Conference on Computer Ethics—Philosophical Enquiry.) doi [10.1145/1327325.1327328](10.1145/1327325.1327328).

2006   S. Chopra and S. Dexter. "The Political Economy of Open Source Software." *The International Journal of Technology, Knowledge and Society*, Volume 1, Number 7, 127–134.

1999   K. J. Compton and S. Dexter. "Proof Techniques for Cryptographic Protocols." *Automata, Languages, and Programming: Lecture Notes in Computer Science,* Volume 1644, 25–39.

1997   S. Dexter, P. Doyle and Y. Gurevich. "Gurevich Abstract State Machines and Schönhage Storage Modification Machines." *Journal of Universal Computer Science,* Volume 3, Number 4. April.

Book Chapters

2012   S. Dexter. "The Esthetics of Hidden Things." In David M. Berry, ed., *Understanding Digital Humanities*. London: Palgrave Macmillan.

2012   J. Aycock, E. Buchanan, S. Dexter and D. Dittrich. "Human Subjects, Agents, or Bots: Current Issues in Ethics and Computer Security Research." In *Financial Cryptography and Data Security*. Berlin: Springer.

Digital Projects

2012– *A Player and a Gentleman: The Diary of Harry Watkins, Nineteenth-Century US American Actor.* harrywatkinsdiary.org. Technology Director: Developed, implemented, and maintained Drupal website and XSL scripts to support and coordinate transcription of 1200 diary pages by 20+ project staff.

2008 *Ellis Island.* ellisislandpoem.com. Implemented "Random Sonnet Generator" (or Aleatronic Tetradecalethiobulator) to accompany Robert Viscusi's epic sonnet cycle.

Conference Proceedings

2014 S. Dexter. "Gender in the Cybernetic Fold." CEPE 2014 and Ethicomp 2014 Joint Symposium: Celebrating Women from Computer Ethics to Information Ethics. Paris. June. www.academia.edu/7892091/Gender_in_the_Cybernetic_Fold

2013 E. Buchanan, K. Dins, S. Dexter, and K. Miller. "Ethics: What, How, and When is it Taught in Computer Science and Information Technology Graduate Programs." *Proceedings of the Tenth International Conference on Computer Ethics: Philosophical Enquiry (CEPE 2013).* Lisbon, Portugal. July.

2013 S. Dexter and A. Kozbelt. "Closing the Gaps: Toward Unifying and Deepening the Study of Creativity." *Proceedings of Creativity and Cognition 2013.* Sydney, Australia. June. doi 10.1145/2466627.2466674.

2013 S. Dexter, E. Buchanan, K. Dins, K. Fleischmann, K. Miller. "Characterizing the Need for Graduate Ethics Education." *Proceedings of SIGCSE 2013* (Association for Computing Machinery Special Interest Group on Computer Science Education 2013 Conference). Denver, Colorado. March. doi 10.1145/2445196.2445245.

2012 A. Kozbelt, S. Dexter, F. Fayena-Tawil, D. Meredith, M. Dolese, and A. Seidel. "Regressive Imagery in Verbal Protocols of Artists and Computer Programmers." *Proceedings of the 22nd Biennial Congress of the International Association of Empirical Aesthetics.* Taipei, Taiwan. August.

2010 A. Kozbelt, S. Dexter, M. J. Dolese, & A. Seidel. "Beautiful Software: Characterizing Aesthetic Judgment Criteria of Code among Expert and Novice Computer Programmers." *Proceedings of the 22nd Biennial Congress of the International Association of Empirical Aesthetics.* Dresden. August.

2009 Chopra, S. and S. Dexter. "Free Software, Economic 'Realities,' and Information Justice." *Proceedings of the Eighth International Conference of Computer Ethics: Philosophical Enquiry (CEPE 2009).* Corfu, Greece. June.

2008 P. Tao, S. Dexter and A. M. Eskicioğlu. "Robust digital image watermarking in curvelet domain." *Proceedings of IS&T/SPIE Electronic Imaging 2008.* San Jose, California. January.

2007   S. Chopra and S. Dexter. "Free Software and the Political Philosophy of the Cyborg World." *Proceedings of the Seventh International Conference of Computer Ethics: Philosophical Enquiry (CEPE 2007).* San Diego, California. July.

2005   S. Chopra and S. Dexter. "A Comparative Assessment of Free Software Licensing Schemes." *Proceedings of the Sixth International Conference of Computer Ethics: Philosophical Enquiry (CEPE 2005).* Enschede, The Netherlands. July.

2005   A. Sverdlov, S. Dexter and A. M. Eskicioğlu. "Robust DCT-SVD Domain Image Watermarking for Copyright Protection: Embedding Data in all Frequencies." *Proceedings of the 13th Annual European Signal Processing Conference (EUSIPCO 2005).* Antalya, Turkey. September.

2005   E. Ganic, S. Dexter and A. M. Eskicioğlu. "Embedding multiple watermarks in the DFT domain using low and high frequency bands." *Proceedings of IS&T/SPIE Electronic Imaging 2005.* San Jose, California. January.

2004   S. Dexter, R. Belostotskiy and A. M. Eskicioğlu. "Multi-layer Multicast Key Management with Threshold Cryptography." *Proceedings of IS&T/SPIE Electronic Imaging 2004.* San Jose, California. January.

2004   X. Xu, S. Dexter and A. M. Eskicioğlu. "A Hybrid Scheme for Encryption and Watermarking." *Proceedings of IS&T/SPIE Electronic Imaging 2004.* Santa Jose, California. January.

2003   S. Dexter and J. Shuler. "The Digital Divide in New York City's Public Schools." *Proceedings of the International Research Foundation for Development's World Forum on the Information Society* (in conjunction with the United Nations World Summit on the Information Society). Geneva, Switzerland. December.

2003   A. M. Eskicioğlu, S. Dexter and E. Delp. "Protection of Multicast Scalable Video by Secret Sharing: Simulation Results." *Proceedings of IS&T/SPIE Electronic Imaging 2003.* Santa Clara, California. January.

2002   S. Dexter and C. Gurwitz. "Virtual Education: A View from the Trenches." *Proceedings of the 2002 Consortium for Computing at Small Colleges Northeast Regional Conference.* Worcester, Massachusetts. April.

2000   S. Dexter. "Teaching Applet Programming to Non-Majors—Virtually." *Proceedings of the 30th ASEE/IEEE Frontiers in Education Conference.* Kansas City, Missouri. October.

2000   S. Dexter. "On Automated Checking of Java Applets." *Proceedings of the 2000 Consortium for Computing at Small Colleges Northeast Regional Conference.* Mahwah, New Jersey, April.

2000   S. Dexter and G. Theoharis. "Democracy at a Distance?: The Political Realities of Distance Learning." *Proceedings of the 2000/2001 Southwest/Texas Popular Culture Association/American Studies Association Conference.* Albuquerque, New Mexico. February.

Under Preparation

S. Dexter. *The American Android.* Book-length manuscript. Under consideration by the University of Michigan Press.

A. Hughes, N. Stubbs, and S. Dexter. *A Player and a Gentleman: The Diary of Harry Watkins.* Critical (print) and digital editions. Under review by the University of Michigan Press.

INVITED PRESENTATIONS

2015   S. Dexter. "American Android: Artificial Humans in the US, 1895–2719." Presented at NEH-funded seminar on "Technology, Self, and Society." LaGuardia Community College. October.

2014   S. Dexter. "The American Android: Sex, Suffrage, and Science Fiction." Wolfe Fellows Series Lecture. Wolfe Institute for the Humanities, Brooklyn College. April.

2010   S. Dexter and S. Chopra. "Free Software." Digital Studies Seminar, CUNY Graduate Center. October.

2006   S. Dexter. "Remarks on Freedom Zero." International Association for Computing and Philosophy meeting on "Conflicts, Compromises, and Responsibility in Open Source vs. Proprietary Software Development." American Philosophical Association Eastern Division Annual Meeting. Washington, DC. December.

2006   S. Dexter. "US Cyberinfrastructure." 11th Sino-American Conference on Education. Taiyuan, P.R. China. June.

2006   S. Dexter. "Remarks on the Ethics of Copyleft." International Association for Computing and Philosophy meeting on "Issues concerning Open Source Software." American Philosophical Association Central Division Annual Meeting. Chicago. April.

2004   S. Dexter. "Network Security: Who is Responsible?" 10th Sino-American Conference on Education. CUNY. June.

2003   C. Caruso and S. Dexter. "Computer Security for Non-Profit Organizations." Barbara Smith Community School Workshop Series. Philadelphia. November.

2002   C. Caruso and S. Dexter. "Computer Security for Grassroots Activists." Break the Media Blackout 2002. Philadelphia. October.

2002   S. Dexter. "On the Distribution of Responsibility for Network Security." York College, CUNY. April.

2001   S. Dexter. "Network Intrusion Detection." 9th Sino-American Conference on Education. Taiyuan, P.R. China. June.

2001   C. Caruso and S. Dexter. "Computer Security for NGOs and Non-Profits." 2001 American Symposium on Technology at the Grassroots. Toronto. June.

CONFERENCE PRESENTATIONS

2015   S. Dexter. Paper: "A Player and a Gentleman: The Diary of Harry Watkins." Presented at Digital Scholarship panel, Association for Theatre in Higher Education (ATHE) 2015 Conference. Montreal. August.

2014   S. Dexter. Paper: "Technology and Gender in Asimov's *The Caves of Steel*." Popular Culture Association/American Culture Association 2014 National Conference. Chicago. April.

2013   Hughes, Amy E., Naomi J. Stubbs and Scott D. Dexter. Paper: "Form Follows Function: Drupal's Role in Editing the Diary of Harry Watkins (1825-1894)." Contributed to working session, American Society for Theatre Research (ASTR) Conference. Dallas, November.

2013   E. Buchanan, S. Dexter, H. Tavani, C. Ess, D. Johnson, and L. Floridi. Panel: "From Text to the Classroom: A Discussion of Computer and Information Ethics by, with, and for Educators." *Tenth International Conference on Computer Ethics: Philosophical Enquiry (CEPE 2013).* Lisbon, Portugal. July.

2012   A. Kozbelt, S. Dexter, F. Fayena-Tawil, D. Meredith, M. Dolese and A. Seidel. Paper: "Regressive Imagery in Verbal Protocols of Artists and Computer Programmers." 22nd Biennial Congress of the International Association of Empirical Aesthetics. Taipei, Taiwan, August.

2012   W. O. Martin, J. Suzuki, D. Vidakovic, S. Loch, L. A. Cooley, C. Ciuperca, and S. Dexter. Paper: "LINE (Linear Algebra in New Environments): Using Learning Theories to Design Linear Algebra Modules." Joint Mathematics Meetings, Boston. January.

2011   E. Buchanan, J. Aycock, S. Dexter and D. Dittrich. Panel: "Human Subjects, Agents, or Bots: Current Issues in Ethics and Computer Security Research." Workshop on Ethics in Computer Security Research, St. Lucia, March.

2011   S. Dexter. Paper: "Retrieving the Human." Constituting the Human, Macaulay Honors College, City University of New York. April.

2011   S. Dexter, J. Søraker, A. Hoffmann and N. Enright. Panel: "New Directions for Information Ethics Scholarship." Computer Ethics: Philosophical Enquiry. Milwaukee. June.

2010   S. Dexter. Paper: "Toward a Poetics of Code." Workshop on The Computational Turn, Swansea University, Swansea, Wales. March.

2010   A. Kozbelt, S. Dexter, A. Seidel and M. Dolese. Paper: "The Aesthetics of Computer Code: A Quantitative Exploration." 21st Congress of the International Association of Empirical Aesthetics. Dresden, Germany. August.

2009   S. Dexter, A. Tucker, and H. Ellis. Panel: "Using Open Source Software to Engage Students in Computer Science Education." 2009 ACM Technical Symposium on Computer Science Education (SIGCSE 2009). Chattanooga. March.

2007   S. Chopra and S. Dexter. Paper: "The Freedom Zero Problem: Free Software and the Ethical Use of Software." North American Computing and Philosophy 2007. Chicago. July.

2005   S. Chopra and S. Dexter. Paper: "The Aesthetic Imperative of Free Software." North American Computing and Philosophy 2005. Corvallis, Oregon. August.

2003   S. Dexter et al. Panel: "Computer and Data Security for Small Businesses: Answers to Your Questions." CUNY Institute for Software Design and Development. March.

2003   S. Dexter and C. Gurwitz. Panel: "Nifty Assignments: An HTML Renderer." 2003 ACM Technical Symposium on Computer Science Education (SIGCSE 2003). Reno, Nevada. February.

2000   G. Crocker, S. Dean and S. Dexter. Paper: "Teaching Programming with WebToTeach." 2000 National Educational Computing Conference (NECC 2000). Atlanta. June.

TEACHING EXPERIENCE

Undergraduate

Computing: Its Nature, Power, and Limits
Introduction to Discrete Structures
Theoretical Computer Science
Advanced Programming Techniques
Data Structures
Design and Implementation of Software
    Applications I
Design and Implementation of Software
    Applications II
Philosophy and Artificial Intelligence
Computers and Ethics
Independent Study and Research

Graduate

Doctoral

Computational Problems in the Digital Humanities

Master's

Computer Security
Multimedia Computer Systems
Information and Computation

Honors Advising

Nadege Willis, CUNY Baccalaureate, 2014–.
Sunny Shapir, Brooklyn College Honors Academy, 2015–2016.

SERVICE

Professional

2008–12   Board member, International Society for Ethics and Information Technology (INSEIT).

University

2014–   Graduate Center Digital Initiatives. Ad Hoc Curriculum Committee for Data Science and Visualization.

| 2015– | CUNY Disability Scholars. Founding member. |

College

2015–16	Faculty Council Committee on Academic Foundations (elected)
2014–15	Chair, Faculty Council Committee on Academic Foundations (elected); Co-Chair, Ad Hoc Committee on General Education (elected).
2015–	President, Phi Beta Kappa Rho of New York Chapter (Brooklyn College).
2015–	Reader, Honors Academy Admissions.
2006–	Faculty Council Delegate (elected).
2010–12	Faculty Council Committee on Committees (elected).
2008–11	Director of the Core Curriculum.
2007–8	Middle States Working Group on Programs.
2007–8	Faculty Council Computer Utilization and Educational Technology Committee (elected).
2008	Chair, Faculty Subcommittee on Promotion to Associate Professor, Division of Science.
2007	Faculty Subcommittee on Tenure, Division of Science.
2004	Faculty Subcommittee on Tenure, Division of Science.
2000–5	Brooklyn College Association Board.
2000–1	Teacher Education Advisory Committee.

Department

2007–11	Chair, Undergraduate Curriculum Committee (elected).
1999–2011	Undergraduate Curriculum Committee (elected).
2006-11	Chair, Core Curriculum Committee (elected).

REVIEWING

Digital Humanities Quarterly
The Information Society
Philosophy & Technology
Journal of Systems and Software

PROFESSIONAL MEMBERSHIPS

The International Association for Computing and Philosophy (IACAP)
International Society for Ethics and Information Technology (INSEIT)
Free Software Foundation (FSF)
Association of Computing Machinery (ACM)
ACM Special Interest Group on Computer Science Education (SIGCSE)
ACM Special Interest Group on Computers and Society (SIGCAS)

REFERENCES

Donna Wilson
Provost and Senior Vice President of Academic Affairs
Lock Haven University of Pennsylvania

209 Sullivan Hall
Lock Haven, Pennsylvania 17745
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Robert Viscusi
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Executive Officer, The Ethyle R. Wolfe Institute for the Humanities
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David M. Arnow
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Lee Quinby
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Macaulay Honors College at CUNY
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