

Monica G. Maceli, Ph.D.

Associate Professor

Pratt Institute, School of Information

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EDUCATION

Drexel University, College of Information Science and Technology

Philadelphia, PA

Ph.D., Information Studies

Areas of concentration: human-computer interaction & end-user development

Aveiro University

Aveiro, Portugal

DESIRE Network's 2010 International Summer School

Topic: Models of Creative Design

Drexel University, College of Information Science and Technology

Philadelphia, PA

M.S.I.S., Information Systems

Area of concentration: human-computer interaction

Bryn Mawr College

Bryn Mawr, PA

B.A., Anthropology; Minor: Fine Arts

PROFESSIONAL EXPERIENCE

Pratt Institute, School of Information

New York, NY

Associate Professor	2019-present
Co-director, Environmental Sensing Lab @ Pratt Research Accelerator	2019-2024
Faculty Fellow, Pratt's Center for Teaching and Learning (CTL)	2021
Associate Program Coordinator, MS in Information Experience Design	2017-2019
Assistant Professor	2014-2019

Drexel University, College of Computing & Informatics

Philadelphia, PA

Assistant Teaching Professor	2012-2014
Instructor	2010-2012
Graduate Research Assistant	2007-2010

TEACHING

Pratt Institute, School of Information

New York, NY

INFO 654 Information Technologies

INFO 638 Web Development

INFO 639 Database Design and Development

INFO 697 Special Topics: Rapid Prototyping and Physical Computing

INFO 697 Special Topics: Experience Design For The Internet Of Things (IoT)

Drexel University, College of Computing & Informatics

Philadelphia, PA

INFO 101 Introduction to Information Technology

INFO 105 Introduction to Informatics

INFO 108 Foundations of Software

INFO 110 Human Computer Interaction I

INFO 215 Social Aspects of Computing

INFO 310 Human Computer Interaction II

INFO 480 Special Topics – Social Media

Drexel University Computing Academy (DUCA): HCI Sessions

Massive Open Online Course (MOOC): Introduction to Informatics

RESEARCH INTERESTS

My research addresses: 1) information technology education, trends, and applications in the library and information science field, 2) the design and customization of information technology tools by end users, and 3) single-board computer and microcontroller applications in galleries, libraries, archives, and museums (GLAM).

PUBLICATIONS

Book Chapters & Contributions

Maceli, M. (2021). Environmental Monitoring Systems. In Patricia C. Franks (Ed.) *The Handbook of Archival Practice*. Rowman & Littlefield Publishers.

Maceli, M. (2019). Privacy-Protection Technology Tools: Libraries and Librarians as Users, Participants, and Advocates. In Kenneth J. Varnum (Ed.) *New Top Technologies Every Librarian Needs to Know: A LITA Guide*. Chicago: ALA Neal-Schuman.

Maceli, M. (2018). Tech-Savvy Librarian vs. (Library) Technologist: Understanding the Future Role of Librarians in Technology Practice. In L. C. Sarin, J. Percell, P. T. Jaeger, & J. C. Bertot (Eds.) *Re-Envisioning the MLS: Perspectives on the Future of LIS Education, Advances in Librarianship, 44(B)*, Emerald Group Publishing Limited. pp. 153-178. DOI=<https://doi.org/10.1108/S0065-28302018000044B009>

Maceli, M., & Song, M. (2007). Deep Web Mining Through Web Services. In *Encyclopedia of Data Warehousing and Mining* (Vol. 2, p. 631-637). Hershey, PA: Information Science Reference. DOI=<http://dx.doi.org/10.4018/978-1-60566-010-3.ch099>

Journal Articles

Maceli, M. (2024). Implementing Library Maker Projects Outside of the Makerspace: A Case Study. *Information Technology and Libraries*, 43(2), 1-33. DOI=<https://doi.org/10.5860/ital.v43i2.16833>

Maceli, M. (2022). "Tinkering is Underrated": Librarians' Use of Single-Board Computers and Microcontrollers Outside of Makerspaces. *Library Hi Tech*, 42(3), 749-764. DOI=<https://doi.org/10.1108/LHT-11-2021-0378>

Maceli, M. (2021). Low-Cost Physical Computing Platforms for End-User Prototyping of Smart Home Systems. *Behaviour & Information Technology*, 40(10), 997-1007. DOI= <https://doi.org/10.1080/0144929X.2021.1918248>

Maceli, M. & Yu, K. (2020). Usability Evaluation of an Open Source Environmental Monitoring Data Dashboard for Archivists. *Archival Science*, 20(4), 347-360. DOI=<https://doi.org/10.1007/s10502-020-09340-1>

Maceli, M. (2020). Internet of things in the archives: novel tools for environmental monitoring of archival collections. *Records Management Journal*, 30(2), 201-220. DOI=<https://doi.org/10.1108/RMJ-08-2019-0046>

Maceli, M. (2019). Making the Future Makers: Makerspace Curriculum in Library and Information Science Graduate Programs and Continuing Education. *Library Hi Tech*, 37(4), 781-793. DOI=<https://doi.org/10.1108/LHT-01-2019-0005>

Maceli, M. (2019). Librarians' mental models and use of privacy-protection technologies. *Journal of Intellectual Freedom & Privacy*, 4(1), 18-32. DOI=<http://dx.doi.org/10.5860/jifp.v4i1>

Maceli, M. (2018). EnviroPi: Taking a DIY Internet-of-Things approach to an environmental monitoring system. *Code4Lib Journal*, 42. <https://journal.code4lib.org/articles/13943>

Maceli, M. (2018). Encouraging patron adoption of privacy-protection technologies: Challenges for public libraries. *IFLA Journal – Special Issue on Privacy*, 44(3), 195-202. DOI=<https://doi.org/10.1177/0340035218773786>

Maceli, M. & Cocciolo, A. (2017). Monitoring Environmental Conditions with Low-Cost Single Board Computers. *Preservation, Digital Technology & Culture*, 46(4), 124-131. DOI=<https://doi.org/10.1515/pdpc-2017-0008>

Maceli, M. & Burke, J. (2016). Technology Skills in the Workplace: Information Professionals' Current Use and Future Aspirations. *Information Technology and Libraries*, 35(4), 35-62. DOI=<http://dx.doi.org/10.6017/ital.v35i4.9540>

Maceli, M. (2016). Introduction to Text Mining with R for Information Professionals. *Code4Lib Journal*, 33. <http://journal.code4lib.org/articles/11626>

Maceli, M. (2015). What Technology Skills Do Developers Need? A Text Analysis of Job Listings in Library and Information Science (LIS) from Jobs.code4lib.org. *Information Technology and Libraries*, 34(3), 8-21. DOI=<http://dx.doi.org/10.6017/ital.v34i3.5893>

Maceli, M. (2015). Creating Tomorrow's Technologists: Contrasting Information Technology Curriculum in North American Library and Information Science Graduate Programs against Code4lib Job Listings. *Journal of Education for Library and Information Science*, 56(3), 198-212. DOI=<http://dx.doi.org/10.12783/issn.2328-2967/56/3/3>

Maceli, M., Wiedenbeck, S., & Abels, E. (2011). The Internet Public Library (IPL): An Exploratory Case Study on User Perceptions. *Information Technology and Libraries*, 30(1), 16-23. DOI=<http://dx.doi.org/10.6017/ital.v30i1.3041>

Refereed Conference Papers

Maceli, M., Smith, N., & Bhatka, G. (2024). Incorporating Unanticipated Uses of Generative AI into HCI Education. In *Proceedings of the 6th Annual Symposium on HCI Education (EduCHI '24)*. Association for Computing Machinery, New York, NY, USA. DOI=<https://doi.org/10.1145/3658619.3658628>

Maceli, M. (2020). Physical Computing in Library and Information Science Master's Program Curriculum: A Pilot Course Offering and Future Possibilities. In Sundqvist, A., Berget, G., Nolin, J. & Skjerdingsstad, K.I. (Eds.), *Proceedings of iConference 2020* (pp. 545-552). Cham, Switzerland: Springer Nature Switzerland AG. DOI=https://doi.org/10.1007/978-3-030-43687-2_44

Lopatovska, I., Braslavski, P., Griffin, A., Al Thani, A., Curran, K., Garcia, A., Mann, M., Mish, S., Srp, A., Stewart, S., Wang, W., & **Maceli, M.** (2020). Comparing Intelligent Personal Assistants on Humor Function. In Sundqvist, A., Berget, G., Nolin, J. & Skjerdingsstad, K.I. (Eds.), *Proceedings of iConference 2020* (pp. 828-834). Cham, Switzerland: Springer Nature Switzerland AG. DOI=https://doi.org/10.1007/978-3-030-43687-2_69

Maceli, M. (2019). An Internet-of-Things End-User Development Approach to Environmental Monitoring of Cultural Heritage Archives. In Malizia A., Valtolina S., Morch A., Serrano A., Stratton A. (Eds.) *End-User Development. IS-EUD 2019*. Lecture Notes in Computer Science, Vol. 11553 (pp. 149–157). Cham: Springer. DOI=https://doi.org/10.1007/978-3-030-24781-2_10

Maceli M., Villaespesa E., & Adams S.A. (2019). Environmental Monitoring of Archival Collections: An Exploratory Study of Professionals' Data Monitoring Dashboard Needs and Related Challenges. In Taylor, N., Christian-Lamb, C., Martin, M., Nardi, B. (Eds.) *Information in Contemporary Society. iConference 2019*. Lecture Notes in Computer Science, Vol. 11420 (pp. 777-784). Cham: Springer. DOI=https://doi.org/10.1007/978-3-030-15742-5_73

Maceli, M. (2017). Tools of the Trade: A Survey of Technologies in End-User Development Literature. In Barbosa, S., et. al. (Eds.) *Proceedings of the 6th International Symposium on End-User Development* (pp. 49-65). Heidelberg: Springer. DOI=http://dx.doi.org/10.1007/978-3-319-58735-6_4

Maceli, M. (2016). Co-Design in the Wild: A Case Study on Meme Creation Tools. In *Proceedings of the 14th Participatory Design Conference: Full papers - Volume 1* (PDC '16), Vol. 1 (pp. 161-170). New York: ACM. DOI=<http://dx.doi.org/10.1145/2940299.2940300>

Maceli, M. (2015). Instilling a Culture of Participation: Technology-Related Skills and Attitudes of Aspiring Information Professionals. In Díaz, P., et al. (Eds.) *Proceedings*

of the 5th International Symposium on End-User Development (pp. 173-179). Heidelberg: Springer. DOI=http://dx.doi.org/10.1007/978-3-319-18425-8_12

Maceli, M., & Atwood, M. E. (2013). "Human Crafters" Once Again: Supporting Users as Designers in Continuous Co-Design. In Dittrich, Y., et al. (Eds.) *Proceedings of the 4th International Symposium on End-User Development* (pp. 9-24). Heidelberg: Springer. DOI=http://dx.doi.org/10.1007/978-3-642-38706-7_3

Maceli, M., & Atwood, M. E. (2011). From Human Crafters to Human Factors to Human Actors and Back Again: Bridging the Design Time – Use Time Divide. In Costabile, M.F., et al. (Eds.) *Proceedings of the 3^d International Symposium on End-User Development* (pp. 76-91). Heidelberg: Springer. DOI=http://dx.doi.org/10.1007/978-3-642-21530-8_8

Maceli, M., & Atwood, M. E. (2011). From Human Factors to Human Actors to Human Crafters. In *Proceedings of the 2011 iConference* (pp. 98-105). New York, NY: ACM. DOI=<http://dx.doi.org/10.1145/1940761.1940775>

Workshop Papers

Maceli, M. & MacDonald, C. M. (2021) Incorporating Ethics into a Graduate-Level Human-Computer Interaction Curriculum: An Integrated Approach. *Short paper presented at Co-Designing Resources for Ethics Education in HCI*, May 9, 2021.

Maceli, M. (2018). "It Works by Not Doing Things That Everybody Else Does": Designing for User Privacy. *Short paper presented at Privacy in Context: Critically Engaging with Theory to Guide Privacy Research and Design*, CSCW 2018, November 3, 2018, Jersey City, NJ, https://networkedprivacycsw2018.files.wordpress.com/2018/10/maceli_2018_it-works-by-not-doing.pdf

Maceli, M. (2015). Towards a Future of Increasing End-User Development: Creating Empowered or Over-Burdened End Users? In *Proceedings of 3rd Workshop on Cultures of Participation in the Digital Age*, CoPDA'15, Madrid, Spain, May 26, 2015, CEUR-WS.org, <http://ceur-ws.org/Vol-1641/paper4.pdf>

Maceli, M. (2014) Future-Focused Ideation: Meta-Design Inspired Heuristics. *Short paper presented at Environments for creative interaction design processes*, June 21, 2014, Vancouver, BC, Canada.

Maceli, M. (2013) Learning from the Learners: MOOCs and Cultures of Participation. *Short paper presented at CoPDA 2013: Cultures of Participation in the Digital Age*, June 10, 2013, Copenhagen, Denmark.

Maceli, M. (2012) Meta-Design Tools: Expanding Opportunities for Digital Imagery in Visual Thinking. *Short paper presented at Visual Thinking & Digital Imagery*, May 5, 2012, Austin, TX.

Maceli, M. (2011) From Human Factors to Human Actors to Human Crafters: Principles Supporting Design in Use. *Short paper presented at Designer Experience: Exploring Ways to Design in Experience*, May 7, 2011, Vancouver, BC, Canada.

PANELS & PRESENTATIONS

- Maceli, M.** (2022, October 13). Encouraging Patron Adoption of Privacy-Protection Technologies. ILA Annual Conference, Coralville, IA.
- Maceli, M.** (2022, March 30). Library Use of Raspberry Pis. Presented at Information Today's Computers in Libraries 2022, Alexandria, VA.
- Maceli, M.** (provisional date, accepted). Internet-Of-Things Technologies for Environmental Monitoring: Exploring the Possibilities in Cultural Heritage Archives. To be presented at Current and Future Research in Cultural Heritage Preservation Symposium, Image Permanence Institute, Rochester Institute of Technology, Rochester, NY.
- Maceli, M.** (2020, October 5). Panelist on Privacy vs. Free Speech Online. Pratt Institute Libraries, Brooklyn, NY.
- Maceli, M.** (2020, September 25). Presenter at Pratt's Center for Teaching and Learning 2020 Fall Forum: Teaching with Canvas, Pratt Institute, Brooklyn, NY.
- Maceli, M.** (2020, February 20). Creative Coding with the Micro:Bit. Presented at the Beta Space @ Dekalb Gallery, Pratt Institute, Brooklyn, NY.
- Maceli, M.** (2019, August 22). Pratt research panel member, Pratt Institute, Brooklyn, NY.
- Maceli, M.** (2018, September 20). Internet-of-Things Environmental Monitoring Systems. Presented at ASIS&T Student Chapter Speakeasy Series, Pratt Institute, New York, NY.
- Maceli, M.** (2018, September 12-14). Invited participant at National Forum on Web Privacy and Web Analytics. Montana State University, Bozeman, Montana.
- Maceli, M.** (2018, February 14). Low-Cost Preservation Environment Monitoring with the Raspberry Pi. Presented at Code4Lib 2018 Conference, Washington, DC.
- Maceli, M.** (2017, September 21). Librarians' Perceptions and Use of Privacy-Protection Technology Tools. Presented at ASIS&T Student Chapter Speakeasy Series, Pratt Institute, New York, NY.
- Maceli, M.** (2017, March 8). Protecting Me How? Understanding the Function of Privacy-Protection Technology Tools. Presented at Code4Lib 2017 Conference, Los Angeles, CA.
- Maceli, M.** (2016, December 6). Hour of Code for Library & Information Science. Presented at Pratt School of Information Hour of Code, Pratt Institute, New York, NY.
- Maceli, M.** (2016, August 5). Who's Technically Doing What? Presented at Code4Lib NYS 2016 Midsummer Meeting & Unconference, Ithaca, NY.
- Maceli, M.** & Cociolo, A. (2016, May 17). Applications of the Raspberry Pi in the LAM domain. Presented at Pratt School of Information Maker & Game Fair, Pratt Institute, New York, NY.
- Maceli, M.** (2016, March 9). What does it take to get a job these days? Analyzing jobs.code4lib.org data to understand current technology skillsets. Presented at Code4Lib 2016 Conference, Philadelphia, PA.
- Maceli, M.** (2015, October 19). Users as Developers. Presented at ASIS&T Student Chapter Speakeasy Series, Pratt Institute, New York, NY.
- Maceli, M.** (2014, April 25). Between a Rock and an OPAC: Designing Usable Library Interfaces. Presented at the 2014 Tri-State College Library Collective (TCLC) Spring Program: User Experience – what it means for your library, Chestnut Hill, PA.

POSTER SESSIONS

- Maceli, M.** (2023). *"See Your Library with Different Eyes": Librarians Making with Raspberry Pi and Arduino Outside of the Makerspace*. Infrastructure poster session to be presented at the ALA Annual Conference & Exhibition, Chicago, IL, June 25, 2023.
- Maceli, M.** (2021). *Supporting 'Making' in Libraries: Expanding Physical Computing Curriculum for Library Science Students*. Poster session to be presented at the ALA Annual 2021 Virtual Conference & Exhibitions.
- Maceli, M.** (2020). *Internet-Of-Things for The Twenty-First Century Archivist: Innovative Technologies for Environmental Monitoring*. Poster session presented at the Society of American Archivists 2020 Research Forum at ARCHIVES*RECORDS 2020: The Virtual Joint Annual Meeting of CoSA and SAA.
- Maceli, M.** & Lopatovska, I. (2020). *Peer-to-Peer Information Exchange Platform for Academic Publishing Experiences: A Prototype*. In Sundqvist, A., Berget, G., Nolin, J. & Skjerdingsstad, K.I. (Eds.), *Proceedings of iConference 2020*. Cham, Switzerland: Springer Nature Switzerland AG.
- Maceli, M.** (2019). *"EnviroPi": An Internet-of-Things Approach to Environmental Monitoring of Cultural Heritage Archives*. Poster session presented at the Pratt Research Open House, Brooklyn, NY.
- Maceli, M.**, Morris, V. I., & Brace, V. (2014). *MOOCs at the College of Computing & Informatics: Successes and Challenges*. Poster session presented at the e-Learning Conference 3.0, Philadelphia, PA.
- Maceli, M.** (2010). *From Human Crafters to Human Factors to Human Actors: Towards a Future of Designing in Use*. Poster session presented at the DESIRE Network's International Summer School, Aveiro, Portugal.
- Maceli, M.** (2009). *Third Wave HCI: Design in the 'World'*. Poster session presented at the Drexel University Research Day, Philadelphia, PA.
- Maceli, M.** (2008). *Methodological Triangulation: Evaluation of Drexel University Libraries' Website*. Poster session presented at the Drexel University Research Day, Philadelphia, PA.

OPEN SOURCE SOFTWARE

- PiProjects4Libraries. (2022). "Collection of Raspberry Pi Projects for use in public/academic/special libraries" <https://github.com/prattpi/piprojects4libraries>
- MicroPython4MicroBit. (2020). "Examples for the BBC Micro:Bit with MicroPython" <https://github.com/Pratt-Institute/MicroPython4MicroBit>
- Enviro-Pi-InfluxDB. (2019). "InfluxDB, Grafana, and BLE-based environmental monitoring system for the Raspberry Pi and Arduino" <https://github.com/prattpi/Enviro-Pi-LAMP>
- Enviro-Pi-LAMP. (2018). "LAMP and BLE-based environmental monitoring system for the Raspberry Pi and Arduino" <https://github.com/prattpi/Enviro-Pi-LAMP>

Raspberry-Pi-Datalogger. (2017). "Raspberry Pi monitor for environmental conditions in archival storage" <https://github.com/prattpi/Raspberry-Pi-Datalogger>

GRANTS & AWARDS

- Faculty Development Fund Award, Pratt Institute. (2020-2021). Project Title: Making Outside the Makerspace: Applications of Single-Board Computers and Microcontrollers in Libraries (\$2,500)
- ALISE Pratt-Severn Faculty Innovation Award (2020)
- Particle for Good in-kind sponsorship for Internet-of-Things environmental monitoring system (2019-2020).
- 2019 Emerald Literati Awards - Outstanding Author Contribution for 'Tech-Savvy Librarian versus (Library) Technologist: Understanding the Future Role of Librarians in Technology Practice'
- Pratt Research SeedGrant Award, Pratt Institute. (2018-2019). Project Title: Internet-of-Things Environmental Monitoring for Cultural Heritage: Exploring Open Hardware Possibilities (\$2,500).
- Faculty Development Fund Award, Pratt Institute. (2017-2018). Project Title: Librarians' Perceptions and Use of Privacy-Protection Technology Tools (\$3,008).

SERVICE

Pratt Institute, School of Information

Chair, School Curriculum Committee	2023-present
Chair, Faculty Search Committee	2021-2022
Peer Review Committee	2014-present
School Curriculum Committee	2014-2018, 2020-present
Faculty Search Committee	AY 18/19, 23/24, 24/25
Chair, Peer Review Committee	2017-2018
LIS Program Committee	2016-2017
e-Portfolio Oversight Committee	2015-2016

Pratt Institute

Vice Provost for Research & Strategic Partnerships Search Committee	2023-2024
Provost Search Committee	2021-2022
Information Officer, Pratt Academic Senate	2019-2022
Senator, Pratt Academic Senate	2019-2022
Steering Committee, Pratt Academic Senate	2019-2022
IT Steering Committee, Pratt Academic Senate rep	2020-present
Academic Integrity Standing Committee	2018-present
Academic Affairs Sub-Committee on Online Learning	Spring 2020
Provost's Council, Pratt Academic Senate rep	2019-2020
Pratt Research Open House, ISC Research Captain	March 2019
Research Recognition Awards Committee	2018-2019
Search Committee for Dean of School of Information	2017-2018
Digitizing the ARPT: Interfolio Test Committee	Summer 2017

Graduate Student Experience Committee	2016-2017
Faculty Development Fund Awards Committee	2015-2016
Distinguished Teacher Award Committee	2014-2015

Drexel University, College of Computing & Informatics

ABET Undergraduate Accreditation Committee	2013-2014
Informatics Undergraduate Curriculum Committee	2013-2014
Teaching Excellence Committee	2012-2013
Faculty Learning Community (FLC): Online Teaching & Learning	2012-2013
Ad Hoc Committee on Undergraduate Education	2011-2012

Program Chair & Program Committees

IS-EUD Doctoral Consortium 2021 (program chair)	2021
Cultures of Participation in the Digital Age (CoPDA)	2013-present
International Symposium on End User Development (IS-EUD)	2013-present
Work-in-progress at IS-EUD 2019 (program chair)	2019
Human Factors in Software Development Processes (HuFaMo)	2017
End-Users' Playground at IS-EUD 2015 (program chair)	2015

Reviewing

Guest editor, "ISEUD2019" issue: <i>Behaviour & Information Technology</i>	2019-present
ASIS&T Annual Meeting	2019-present
iConference	2018-present
Journal of Education for Library and Information Science (JELIS)	2015-present
International Symposium on End User Development (IS-EUD)	2013-present
Cultures of Participation in the Digital Age Workshop (CoPDA)	2013-present
Behaviour & Information Technology	2018-present
Journal of Systems and Software	2018
Innovational Research Incentives Scheme, Netherlands [Grant]	2018
Human Factors in Software Development Processes (HuFo 2017)	2017
IMLS Laura Bush 21st Century Librarian Program [Grant]	2016
Journal of Visual Languages and Computing	2016
Applied Sciences Journal	2015
Nordic Conference on Human-Computer Interaction (NordiCHI)	2014
ACM Conference on Human Factors in Computing Systems (CHI)	2009-2016

Professional Memberships

- American Association of University Professors (AAUP)
- Association for Computing Machinery (ACM)
- ACM Council on Women in Computing (ACM-W)
- ACM Special Interest Group on Computer-Human Interaction (SIGCHI)
- Association of Library and Information Science Educators (ALISE)
- The Things Network (TTN) member and gateway owner/operator