

# Anna Baglione

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## EDUCATION

**Indiana University** – Bloomington, Indiana  
PhD in Informatics, Proactive Health Track

Degree Expected May 2021

**The Ohio State University** – Columbus, Ohio  
Bachelor of Science, Computer Science and Engineering  
*Cum Laude, With Honors in Engineering*

May 2016

## RESEARCH INTERESTS

- Designing technology for supporting bereaved individuals throughout the grief journey
- Use of technology for personalized music therapy / music medicine
- Facilitating wellness / social support for vulnerable populations through technology

## RESEARCH PROJECTS

**Indiana University**, Bloomington, Indiana

***Project: Caregiver Attitudes Toward the Music and Memory Program***

March 2017 – Present

Project PIs: Kay Connelly and Cecilia Obeng

Conducting qualitative interview study of caregivers at Music and Memory-certified facilities in Southwestern and Central Indiana. The goal of this study is to gain a better understanding of the program's effectiveness through the caregiver lens.

***Project: Understanding Technology Use Practices of Bereaved Individuals in Online and In-Person Grief Support Groups***

March 2017 – Present

Project PIs: Patrick Shih and James Clawson

Currently conducting a mixed methods survey and interview study on technology use practices among bereaved individuals. The goal of this study is to understand how bereaved individuals use technology throughout the grieving process in order to improve or design technology to support them in their grief journey.

**The Ohio State University**, Columbus, OH  
Music Department  
*Undergraduate Researcher*  
Project PI: Johanna C. Devaney

February 2015 – December 2015

Annotated cello recordings in Audacity with graduate student for use with the Automatic Music Performance Analysis and Comparison Toolkit (AMPACT), a computational model for aligning annotations to a music score. The goal of the project was to improve the performance of AMPACT and expand its domain to include other instruments.

**Louisiana State University**, Baton Rouge, Louisiana  
Center for Computation and Technology  
*NSF REU Intern*  
Project PIs: Stephen David Beck and Christopher Branton

May 2015 – July 2015

Implemented a model for synchronous musical collaboration in laptop orchestras. Model was based on the Internet of Things, a paradigm for connecting diverse clients in one network regardless of operating system or device type. Goal of the project, called the “Orchestra of Things”, was to standardize communication and timing in musical performances between “orchestra” objects such as laptops, smartphones, and embedded instruments.

- Programmed a Python-based webserver application using the Django framework for interacting with the orchestra and viewing which objects are connected at any given time
- Modified UDP message passing functions in the EvoThings mobile application to broadcast an object’s information, including name, device type, and a unique identifier
- Demonstrated successful connection of both Android and iOS clients to the orchestra’s network

**Iowa State University**, Ames, Iowa  
Virtual Reality Applications Center  
*NSF REU Intern*  
Project PI: Stephen Gilbert

May 2013 – July 2013

Collaborated in a team to develop an Intelligent Tutoring System (ITS) for engineering equations; Worked with thermodynamics instructor to design the tutor so it would address and correct students’ misconceptions.

- Co-designed a feedback algorithm for student equation input
- Coded logic checks for equation correctness in the Eclipse Java IDE
- Co-authored final research paper and presented poster at on-campus research symposium

## TEACHING EXPERIENCE

**Indiana University**, Bloomington, Indiana  
*Assistant Instructor*

August 2016 – Present

Assist in teaching both undergraduate- and graduate-level informatics courses (including Advanced Prototyping during Fall 2016 and Media Arts and Technology during Spring 2017). Teaching duties include grading project submissions, including a final project, holding office hours, and teaching a discussion section (Spring 2017).

## PAPERS, POSTERS, AND PRESENTATIONS

### *In Review*

**Baglione, A.**, Girard, M. M., Price, M., Clawson, J., & Shih, P. C. (September 2017). *Modern Bereavement: A Model for Grief and Loss in the Digital Age*. Paper submitted to the 2018 SIGCHI Conference on Human Factors in Computing Systems (CHI 2018).

## **Accepted**

**Baglione, A.**, Girard, M. M., Price, M., Clawson, J., & Shih, P. C. (August 2017). *What Role Does Technology Play in Grief Support?* Poster to be presented at the Workshop on Interactive Systems in Healthcare (WISH) 2017 in Washington, D.C.

Natarajan, S., Prabhakar, A., Ramanan, N., **Baglione, A.**, Connelly, K., & Siek, K. (2017, June). *Boosting for Postpartum Depression Prediction*. Proceedings - 2017 IEEE 2nd International Conference on Connected Health: Applications, Systems and Engineering Technologies, CHASE 2017. <https://doi.org/10.1109/CHASE.2017.82>

**Baglione, A.**, Branton, C., & Beck, S.D. (2016, February). *OOT Client-Server Implementation: First Steps in the Orchestra of Things*. Paper presented at the SEAMUS 2016 National Conference, Statesboro, GA.

**Baglione, A.**, Branton, C., & Beck, S.D. (2015, October) *Many Devices, One Orchestra: An Internet of Things Approach to Collaborative Digital Music*. Poster Presented at the Council on Undergraduate Research (CUR) Symposium 2015, Arlington, VA

## **GRANTS**

### **Sophomore Transitional Experience Program (STEP) at Ohio State (2013-2014)**

Networked with 19 peers and an OSU faculty mentor in a focus group to identify individual interests, develop individualized project benefitting both the OSU community and me. Personal project goal was to explore future directions for combined use of music and technology in therapeutic/educational settings.

Developed 8-page grant request under the direction of two OSU faculty members, successfully securing over \$2500 in funding for cost of travel to New Interfaces for Musical Expression (NIME) 2014 conference:

- Ohio State STEP Program Grant - \$2000
- Critical Difference for Women Program at OSU: Marianna Russell Grant - \$500
- Ohio State Honors Collegium Travel Grant - \$250

## **PROFESSIONAL ACTIVITIES AND SERVICE**

**Research Experience for Undergraduates (REU) in Proactive Health Informatics** at Indiana University  
*Graduate Student Mentor*

May 2017 – August 2017

Served as a mentor for two undergraduate students who worked on our survey + interview study on technology use practices for bereaved individuals. Students learned qualitative data methods analysis, including coding in the Dedoose software, interviewing, transcribing, and creating wireframes.

**Graduate Informatics Student Organization (GISA)**  
*Treasurer*

January 2017 – Present

- Maintain paper and electronic records of all organizational spending and account balances
- Submit payment and reimbursement requests online and in person

- Attend biweekly board meetings to discuss past and future spending on organization activities

**School of Informatics and Computing (SoIC)**  
**Prospective PhD Student Visit Weekend**  
*Student Volunteer Coordinator*

October 2016 – February 2017

- Worked with faculty and staff to recruit and schedule student volunteers
- Corresponded with prospective students via email prior to their arrival in Bloomington
- Assisted in leading visit weekend activities (welcome reception, walking tours, etc.)

## PROFESSIONAL AFFILIATIONS / MEMBERSHIPS

- **Upsilon Pi Epsilon** International Honor Society for the Computing and Information Disciplines
- **International Association for Music & Medicine (IAMM)** *Student Member*

## HONORS AND AWARDS

**Ohio State University Presidential Scholarship** 2012 - 2016  
 Full cost of attendance award based on SAT/ACT test scores, class rank, and interview

**Best Poster Award** July 2015  
 LSU Summer Undergraduate Research Forum

Awarded financial support (\$1000 - \$1500) to present summer research work at national or international conference

## PROGRAMMING LANGUAGES

Python, HTML/CSS/JavaScript, C/C++, SQL, MATLAB, Ruby, Java

## RELEVANT COURSEWORK

### Graduate Level

- Health Informatics Seminar (In-depth analysis of Human-Computer Interaction + Health Papers)
- Introduction to Health Informatics (Covered topics such as precision medicine, electronic health records)
- Mobile and Pervasive Design (Introduction to programming Android mobile applications in Java, analysis of different perspectives in ubiquitous computing)
- Interaction Design Theory (Different perspectives on design in HCI)
- Applied Machine Learning (Implemented a series of basic AML projects in Python)

### Undergraduate Level

- Human Computer Interaction; American Attitudes About Technology
- Software I & II: Components; Development/Design (Java); Knowledge Systems (Capstone Class)
- Introduction to Statistics For Engineers
- Calculus II; Linear Algebra; Ordinary and Partial Differential Equations; Foundations of Higher Mathematics
- Introduction to Cognitive Neuroscience; Introduction to Psychology