
 Accessibility; Human-Computer Interaction; Applied Machine Learning; Natural Language Processing
ACADEMIC POSITION**University of Maryland – College Park**

Affiliate Assistant Professor, Computer Science

2018 – present

Assistant Professor (tenure-track), College of Information Studies

2017 – present

EDUCATION**Doctor of Philosophy**, Computer Science, *City University of New York*

2016

Master of Philosophy, Computer Science, *City University of New York*

2014

Thesis: Data-driven synthesis and evaluation of syntactic facial expressions in ASL animation.*Advisor*: Matt Huenerfauth*Additional Thesis Committee Members*: Vicki Hanson, Raquel Benbunan-Fich, Andrew Rosenberg**Master of Science**, Advanced Computer Systems, *National and Kapodistrian University of Athens*

2011

Thesis: 8-dot Braille code for Greek monotonic and polytonic writing systems.*Advisor*: Georgios Kouroupetroglou**Bachelor of Science**, Computer Science (Rank: 4th of 52), *National and Kapodistrian University of Athens*

2007

Thesis: MathPlayer – Audio Rendering of Mathematical MathML Expressions in Greek.*Advisor*: Georgios Kouroupetroglou**PROFESSIONAL EXPERIENCE****Carnegie Mellon University**. Postdoctoral Fellow

2016 – 2017

Cognitive Assistance Lab, Human-Computer Interaction Institute, School of Computer Science

Hosts: Chieko Asakawa, Kris Kitani, and Jeffrey Bigham**City University of New York & Rochester Institute of Technology**. Research Assistant

2011 – 2016

Linguistic and Assistive Technologies Lab. Generating accurate, understandable sign language animations based on analysis of human signing. NSF #1065009.

Advisor: Matt Huenerfauth**Lawrence Berkeley National Laboratory**. Research Intern

2015

Usable Software Systems Group, Data Science and Technology Department

Host: Lavanya Ramakrishnan**IBM Research – Tokyo**. Research Intern

2013

Accessibility and Aging Group

Hosts: Hironobu Takagi and Chieko Asakawa**University of Athens** (>65,000 students). Assistive Technologies Specialist

2010 – 2011

Accessibility Unit for Students with Disabilities

Campus-wide accessibility evaluations and effective use of assistive technologies.

University of Athens. Research Assistant

2005 – 2011

Speech and Accessibility Lab. Increase of access on e-government services for people with disabilities and production of accessible science books.

Advisor: Georgios Kouroupetroglou**HONORS & AWARDS**

IEEE WACV 2019 Best Paper Award


2020

ACM ASSETS Best Paper Award	2019
College of Information Studies Honoree, Inaugural Maryland Research Excellence Celebration	2019 – 2020
ACM CHI Best Paper Honorable Mention	2017
ACM ASSETS Best Paper Nominee	2016
CMU's Rising Stars in EECS – A selective career workshop for future academic women in EECS	2016
Mina Rees Dissertation Fellowship in the Sciences	2015
Insight Data Science Scholarship (declined)	2015
CUNY Doctoral Student Research Grants (2 awards)	2013 – 2015
CUNY Conference Presentation Awards (3 awards)	2013 – 2015
Python Software Foundation Financial Aid Award	2013
ACM ASSETS Doctoral Consortium	2012
CUNY Science Fellowship	2011 – 2012

JOURNAL ARTICLES



- J.6 Hong, J., Vaing, C., **Kacorri, H.**, and Findlater, L. 2020. Reviewing Speech Input with Audio: Differences between Blind and Sighted Users. *ACM Transactions on Accessible Computing (TACCESS)*. Volume 13, Issue 1, Article 2, 28 pages.
- J.5 **Kacorri, H.**, Mascetti, S., Gerino, A., Ahmetovic, D., Alampi, V., Takagi, H., and Asakawa, C. 2018. Insights on Assistive Orientation and Mobility of People with Visual Impairment Based on Large-Scale Longitudinal Data. *ACM Transactions on Accessible Computing (TACCESS)*. Volume 11, Issue 1, Article 5.
- J.4 **Kacorri, H.**, Huenerfauth, M., Ebling, S., Patel, K., Menzies, K., and Willard, M. 2017. Regression Analysis of Demographic and Technology Experience Factors Influencing Acceptance of Sign Language Animation. *ACM Transactions on Accessible Computing (TACCESS)*. Volume 10, Issue 1, Article 3.
- J.3 Huenerfauth, M. and **Kacorri, H.** 2016. Eyetracking Metrics Related to Subjective Assessments of ASL Animations. *Journal on Technology & Persons with Disabilities*, Volume 4.
- J.2 Huenerfauth, M. and **Kacorri, H.** 2015. Best Practices for Conducting Evaluations of Sign Language Animation. *Journal on Technology & Persons with Disabilities*, Volume 3.
- J.1 **Kacorri, H.**, Lu, P., and Huenerfauth, M. 2013. Effect of Displaying Human Videos During an Evaluation Study of American Sign Language Animation. *ACM Transactions on Accessible Computing (TACCESS)*. Volume 5, Issue 2, Article 4.

PEER-REVIEWED CONFERENCE PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

- P.20 Hong, J., Lee, K., Xu, J., and **Kacorri, H.**, 2020. Crowdsourcing the Perception of Machine Teaching. In *Proc. of the 38th Annual SIGCHI Conference on Human Factors in Computing Systems (CHI)*. ACM Press. Acceptance rate: 24.3%
- P.19 Lee, K., Sato, D., Asakawa, S., **Kacorri, H.**, and Asakawa, C., 2020. Pedestrian Detection with Wearable Cameras for the Blind: A Two-way Perspective. In *Proc. of the 38th Annual SIGCHI Conference on Human Factors in Computing Systems (CHI)*. ACM Press. Acceptance rate: 24.3%
- P.18 Lee, K., Shrivastava, A., and **Kacorri, H.** 2020. Hand-Priming in Object Localization for Assistive Egocentric Vision. *The IEEE Winter Conference on Applications of Computer Vision (WACV)*, CO, USA. **Best Paper Award (Application)**
- P.17  Bragg, D., Koller, O., Bellard, M., Berke, L., Boudreault, P., Braffort, A., Caselli, N., Huenerfauth, M., **Kacorri, H.**, Verhoef, T., Vogler, C., M.R. Morris. 2019. Sign Language Recognition, Generation, and Translation: An Interdisciplinary Perspective. In *Proc. of the 21st ACM SIGACCESS Conference on*

Computers and Accessibility (ASSETS). Pittsburgh, PA, USA. ACM Press.

Acceptance rate: 26% **Best Paper Award**

- P.16 Lee, K., Hong, J., Pimento, S., Jarjue, E., **Kacorri, H.** 2019. Revisiting Blind Photography in the Context of Teachable Object Recognizers. In *Proc. of the 21st ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. Pittsburgh, PA, USA. ACM Press.
Acceptance rate: 26%
- P.15 Lee, K. and **Kacorri, H.** 2019. Hands Holding Clues for Object Recognition in Teachable Machines. In *Proc. of the 37th Annual SIGCHI Conference on Human Factors in Computing Systems (CHI)*. Glasgow, UK. ACM Press.
Acceptance rate: 23.8%
- P.14 Auxier, B. E., Buntain, C. L., Jaeger, P., Golbeck, J., and **Kacorri, H.** 2019. #HandsOffMyADA: A Twitter Response to the ADA Education and Reform Act. In *Proc. of the 37th Annual SIGCHI Conference on Human Factors in Computing Systems (CHI)*. Glasgow, UK. ACM Press.
Acceptance rate: 23.8%
- P.13 **Kacorri, H.**, Ohn-Bar, E., Kitani, K., and Asakawa, C. 2018. Environmental Factors in Indoor Navigation Based on Real-World Trajectories of Blind Users. In *Proc. of the 36th Annual SIGCHI Conference on Human Factors in Computing Systems (CHI)*. Montréal, Canada. ACM Press.
Acceptance rate: 25.7%
-  P.12 **Kacorri, H.**, Kitani, K., Bigham, J.P., and Asakawa, C. 2017. People with Visual Impairment Training Personal Object Recognizers: Feasibility and Challenges. In *Proc. of the 35th Annual SIGCHI Conference on Human Factors in Computing Systems (CHI)*. Denver, Colorado, USA. ACM Press.
Acceptance rate: 25% **Best Paper Honorable Mention**
-  P.11 **Kacorri, H.**, Mascetti, S., Gerino, A., Ahmetovic, D., Takagi, H., and Asakawa, C. 2016. Supporting Orientation of People with Visual Impairment: Analysis of Large Scale Usage Data. In *Proc. of the 18th ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. Reno, NV, USA. ACM Press.
Acceptance rate: 25% **Best Paper Nominee**
- P.10 **Kacorri, H.** and Huenerfauth, M. 2016. Continuous Profile Models in ASL Syntactic Facial Expression Synthesis. In *Proc. of the 54th Annual Meeting on Association for Computational Linguistics (ACL)*. Association for Computational Linguistics, Berlin, Germany.
Acceptance rate: 25.4%
- P.9 **Kacorri, H.**, Huenerfauth, M., Ebling, S., Patel, K., and Willard, M. 2015. Demographic and Experiential Factors Influencing Acceptance of Sign Language Animation by Deaf Users. In *Proc. of the 17th ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. Lisbon, Portugal. ACM Press.
Acceptance rate: 23%
- P.8 **Kacorri, H.**, Shinkawa, K., and Saito, S. 2015. CapCap: An Output-Agreement Game for Video Captioning. In *16th Annual Conference of the Int'l Speech Communication Association (INTERSPEECH)*, Dresden, Germany.
Acceptance rate: 51%
- P.7 **Kacorri, H.**, Shinkawa, K., and Saito, S. 2014. Introducing Game Elements in Crowdsourced Video Captioning by Non-Experts. In *Proc. of the 11th Web for All Conference (W4A)*. ACM.
Acceptance rate: 60%
- P.6 **Kacorri, H.**, Riga, P., and Kouroupetroglou, G. 2014. Performance Metrics and Their Extraction Methods for Audio Rendered Mathematics. In *Int'l Conference on Computers Helping People with Special Needs (ICCHP)*, pp. 614-621. Springer International Publishing.
Acceptance rate: 36%

- P.5 **Kacorri, H.**, Harper, A., and Huenerfauth, M. 2013. Comparing Native Signers Perception of American Sign Language Animations and Videos via Eye Tracking. In *Proc. of the 15th ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*, Bellevue, WA, USA. ACM Press.
Acceptance rate: 29%
- P.4 Lu, P. and **Kacorri, H.** 2012. Effect of Presenting Video as a Baseline During an American Sign Language Animation User Study. In *Proc. of the 14th ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*, Boulder, CO, USA. ACM Press.
Acceptance rate: 28%
- P.3 Kouroupetroglou, G., Pino, A., and **Kacorri, H.** 2011. A Model of Accessibility Services Provision for Students with Disabilities in Higher Education, In *Proc. of the Int'l Conference Universal Learning Design (ULD)*, Brno, Czech Republic.
- P.2 Pino, A., Kouroupetroglou, G., **Kacorri, H.**, Sarantidou, A., and Spiliotopoulos, D. 2010. An Open Source/Freeware Assistive Technology Software Inventory. In *Int'l Conference on Computers Helping People with Special Needs (ICCHP)*, pp. 178-185. Springer Berlin Heidelberg.
Acceptance rate: 44.8%
- P.1 Kouroupetroglou, G., and **Kacorri, H.** 2010. Deriving Accessible Science Books for the Blind Students of Physics, In *Proc. of the 7th Int'l Conference of the Balkan Physical Union*, Published by the American Institute of Physics (AIP), Vol. 1203(1), pp. 1308-1313.

PEER-REVIEWED PAPERS PUBLISHED IN WORKSHOP PROCEEDINGS

- W.5 **Kacorri, H.**, Dwivedi, U., and Kamikubo, R. 2020. Data Sharing in Wellness, Accessibility, and Aging. In *Proc. of the NeurIPS 2020 Workshop on Dataset Curation and Security*.
- W.4 **Kacorri, H.** and Huenerfauth, M. 2016. Selecting Exemplar Recordings of American Sign Language Non-Manual Expressions for Animation Synthesis Based on Manual Sign Timing. In *Proc. of the 7th Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), INTERSPEECH*, San Francisco, USA.
- W.3 **Kacorri, H.**, Syed, A.R., Huenerfauth, M., and Neidle, C. 2016. Centroid-Based Exemplar Selection of ASL Non-Manual Expressions using Multidimensional Dynamic Time Warping and MPEG4 Features. In *Proc. of the 7th Workshop on the Representation and Processing of Sign Languages: Corpus Mining, The 10th Int'l Conference on Language Resources and Evaluation (LREC)*, Portoroz, Slovenia.
- W.2 **Kacorri, H.** and Huenerfauth, M. 2015. Evaluating a Dynamic Time Warping Based Scoring Algorithm for Facial Expressions in ASL Animations. In *Proc. of the 6th Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), INTERSPEECH*, Dresden, Germany.
- W.1 Huenerfauth, M. and **Kacorri, H.** 2014. Release of Experimental Stimuli and Questions for Evaluating Facial Expressions in Animations of American Sign Language. In *Proc. of the 6th Workshop on the Representation and Processing of Sign Languages: Beyond the Manual Channel, The 9th Int'l Conference on Language Resources and Evaluation (LREC)*, Reykjavik, Iceland.

PEER-REVIEWED PAPERS PUBLISHED AS BOOK CHAPTERS

- C.6 **Kacorri, H.** and Huenerfauth, M. 2015. Comparison of Finite-Repertoire and Data-Driven Facial Expressions for Sign Language Avatars. *Universal Access in Human-Computer Interaction. Lecture Notes in Computer Science*. Springer International Publishing.
- C.5 **Kacorri, H.**, Harper, A., and Huenerfauth, M. 2014. Measuring the Perception of Facial Expressions in American Sign Language Animations with Eye Tracking. *Universal Access in Human-Computer Interaction (UAHCI 2014). Lecture Notes in Computer Science*. Volume 8516, pp. 549-559. Springer International Publishing.

- C.4 **Kacorri, H.**, Riga, P., and Kouroupetroglou, G. 2014. EAR-Math: Evaluation of Audio Rendered Mathematics. *Universal Access in Human-Computer Interaction (UAHCI 2014)*, *Universal Access to Information and Knowledge*, pp. 111-120. Springer International Publishing.
- C.3 **Kacorri, H.**, Lu, P., and Huenerfauth, M. 2013. Evaluating Facial Expressions in American Sign Language Animations for Accessible Online Information. *Universal Access in Human-Computer Interaction (UAHCI 2013)*. *Design Methods, Tools, and Interaction Techniques for eInclusion, Lecture Notes in Computer Science*, pp. 510-519. Springer Berlin Heidelberg.
- C.2 **Kacorri, H.** and Kouroupetroglou, G. 2013. Design and Developing Methodology for 8-dot Braille Code Systems. In *Universal Access in Human-Computer Interaction (UAHCI 2013)*. *Applications and Services for Quality of Life*, pp. 331-340. Springer Berlin Heidelberg.
- C.1 Tsonos, D., **Kacorri, H.**, and Kouroupetroglou, G. 2009. A Design-for-All Approach Towards Multimodal Accessibility of Mathematics, In *P.L. Emiliani et al. (Eds.) Assistive Technology from Adapted Equipment to Inclusive Environments, Assistive Technology Research Series*, Vol. 25, pp. 393-397, IOS Press.

PEER-REVIEWED EXTENDED ABSTRACTS/POSTERS/LATE-BREAKING-WORK

- E.6 **Kacorri, H.**, Dwivedi, U., Amancherla, S., Jha, M., and Chanduka, R. 2020. IncluSet: A Data Surfacing Repository for Accessibility Datasets. In *Proc. of the 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM Press.
- E.5 Natalie, R., Jarjue, E., **Kacorri, H.**, and Hara, K. 2020. ViScene: A Collaborative Authoring Tool for Scene Descriptions in Videos. In *Proc. of the 22nd ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM Press.
- E.4 Elsayed-Ali, S., Bonsignore, E., **Kacorri, H.**, Subramaniam, M. 2020. Designing for Children's Values: Conceptualizing Value-Sensitive Technologies with Children. *Work in Progress of the 19th ACM International Conference on Interaction Design and Children (IDC)*.
- E.3 Hong, J., Lee, K., Xu, J., and **Kacorri, H.** 2019. Exploring Machine Teaching for Object Recognition with the Crowd. *Late Breaking Work of the ACM Human Factors in Computing Systems (CHI)*. Glasgow, Scotland UK. ACM Press.
- E.2 Huenerfauth, M. and **Kacorri, H.** 2015. Augmenting EMBR Virtual Human Animation System with MPEG-4 Controls for Producing ASL Facial Expressions. In *5th International Workshop on Sign Language Translation and Avatar Technology (SLTAT)*, Paris, France, April 9-10, 2015.
- E.1 **Kacorri, H.** and Huenerfauth, M. 2014. Implementation and Evaluation of Animation Controls Sufficient for Conveying ASL Facial Expressions. In *Proc. of the 16th ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. Rochester, NY, USA. ACM Press.

INVITED PUBLICATIONS

- I.3 Gleason, C., Carrington, P., Chilton, L.B., Gorman, B., **Kacorri, H.**, Monroy-Hernández, A., Morris, M.R., Tigwell, G., and Wu, S. 2020. Future research directions for accessible social media. *ACM SIGACCESS Accessibility and Computing*, 127, Article 3 (June 2020), 12 pages.
- I.2 **Kacorri, H.** 2017. Teachable Machines for Accessibility. *ACM SIGACCESS Accessibility and Computing*, (119), 10-18.
- I.1 **Kacorri, H.** 2013. Models of Linguistic Facial Expressions for American Sign Language Animation. *ACM SIGACCESS Accessibility and Computing*, (105), 19-23.

ORGANIZED WORKSHOPS/SPECIAL INTEREST GROUPS

- O.4 Bragg, D., Morris, M.R., Vogler, C., Kushalnagar, R., Huenerfauth, M., **Kacorri, H.** 2020. Sign Language Interfaces: Discussing the Field's Biggest Challenges. In *Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (CHI EA '20)*. ACM Press.
- O.3 Gleason, C., Carrington, P., Chilton, L.B., Gorman, B.M., **Kacorri, H.**, Monroy-Hernández, A., Morris, M.R., Tigwell, G. W., Wu, S. 2019. Addressing the Accessibility of Social Media. In *Companion of the 2019 ACM Conference on Computer Supported Cooperative Work and Social Computing*. ACM.
- O.2 Guerreiro, J., **Kacorri, H.**, Bigham, J.P., Cutrell, E., Sato, D., Ahmetovic, D., Asakawa, C. 2019. Hacking Blind Navigation. In *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems (CHI EA '19)*. Glasgow, Scotland UK. ACM Press.
- O.1 **Kacorri, H.** 2019. Co-designing Teachable Machines for Sign Language. *OurCS@UW+AccessComputing, University of Washington*. A research exploration workshop for undergraduate women with disabilities in computing.

THESES & REPORTS

- T.4 **Kacorri, H.** 2016. Data-Driven Synthesis and Evaluation of Syntactic Facial Expressions in American Sign Language Animation. *Doctoral Dissertation*, Computer Science, Graduate Center, City University of New York.
- T.3 **Kacorri, H.** 2015. TR-2015001: A Survey and Critique of Facial Expression Synthesis in Sign Language Animation. *Computer Science Technical Reports*, Paper 403. Graduate Center, CUNY.
- T.2 **Kacorri, H.** 2011. A study of Greek 8-dot Braille Code, *Master's Thesis*. Department of Informatics and Telecommunications, University of Athens. (available in Greek)
- T.1 **Kacorri, H.** 2006. Audio Rendering of Mathematical MathML Expressions in Greek. *Bachelor's Thesis*. Department of Informatics and Telecommunications, University of Athens. (available in Greek)

PATENTS

- A.1 Shinkawa, K., Saito, S., and Sato, D., **Kacorri, H.** July 9, 2015. A Method for Efficient Generation of Video Captioning from Multiple Inputs. *Japan Patent P2015-127894A*.

GRANTS

- G.8 **CHS: Medium: Collaborative Research: Teachable Activity Trackers for Older Adults**
National Science Foundation, CISE Directorate, IIS Division, #1955568.
Co-PI, October 2020 – September 2024. Amount: \$1,080,000.
with Choe, E.K. (PI) and Lazar, A. (Co-PI)
 - Collaborative research project, linked to corresponding NSF research grant to Conroy, D. at Pennsylvania State University. Overall project total: \$1,199,992.
- G.7 **Engaging Seniors in Light Physical Activities through Teachable Interfaces**
University of Maryland, College Park, MCF Strategic Growth Fund
Co-PI, October 2018 – October 2019. Amount: \$14,891.
with Choe, E.K. (PI) and Lazar, A. (Co-PI).
- G.6 **RERC on Inclusive Information and Communications Technology**
National Institute on Disability, Independent Living, and Rehabilitation Research, #90REGE0008.
Investigator, October 2018 – May 2023. Amount: \$4,625,000.
with Vanderheiden, G. (PI), Lazar, A. (I), Lazar, J. (I), and Jordan, B. (SP).

Project Lead Investigator R1: Identifying Cross-disability Access Strategies for Key Emerging Technologies.

- G.5 **CRI: II-NEW: HoloCamera: An Immersive Gigapixel Cyberinstrument for Creating Precision Virtual Environments**
National Science Foundation, CISE Directorate, CNS Division, #1823321.
Co-PI, August 2018 – September 2021. Amount: \$999,885
with Varshney, A. (PI), Bhattacharyya, S.S. (co-PI), JaJa, J. (co-PI), and Zwicker, M. (co-PI).
- G.4 **CHS: Small: Teachable Object Recognizers for the Blind**
National Science Foundation, CISE Directorate, IIS Division, #1816380.
Principal Investigator, August 2018 – July 2021. Amount: \$497,653.
- G.3 **REU Support for a Student with Disabilities**
AccessComputing and CRA-W Summer Research Internship.
Principal Investigator, June 2018 – August 2018. Amount: \$7,000.
- G.2 **NRI: A Cognitive Navigation Assistant for the Blind**
National Science Foundation, CISE Directorate, IIS Division, #1637927.
Senior Personnel, contributed to grant development. September 2016 – August 2019. Amount: \$1,000,000
with Kitani, K. (PI), Veloso, M. (co-PI), Asakawa, C. (SP), and Ahmetovic, D. (SP).
- G.1 **Data-driven Models and Evaluation of Syntactic Facial Expressions for ASL Animation**
Mina Rees Dissertation Fellowship in the Sciences. Graduate Center, City University of New York.
Grant Awardee. September 2015 – May 2016. Amount: \$24,260.

RESEARCH ADVISING

Ph.D. Students

iSchool: College of Information Studies, University of Maryland, College Park

CS: Computer Science, University of Maryland, College Park

SMU: School of Information Systems, Singapore Management University

JOUR: Journalism, University of Maryland, College Park

Ph.D. Dissertation

- Rie Kamikubo – iSchool (Fall 2020 – Present)
- Utkarsh Dwivedi – iSchool (Spring 2019 – Present) Co-advised with Bonsignore E.
- Kyungjun Lee¹² – CS (Spring 2018 – Present)
- Jonggi Hong – CS (Fall 2017 – Present)

Research Project

- Rosiana Natalie – SMU (Spring 2019 – Fall 2020) Co-advised with Hara, K. (Ph.D. advisor)
- Brooke Auxier – JOUR (Spring 2018) Co-advised with Golbeck, J. (Ph.D. advisor)

M.S. Students

MIM: Master of Information Management, University of Maryland, College Park

HCIM: Master of Science in Human-Computer Interaction, University of Maryland, College Park

INFO-TEL: Informatics and Telecommunications, University of Athens, Greece

EA: Electronic Automation, University of Athens, Greece

Research Project

- Ebrima Jarjue – HCIM (Fall 2018 – Present)
- Julia Kerns – HCIM (Fall 2018 – Spring 2020)
- Tzu-Chia Yeh – HCIM (Fall 2019 – Spring 2020)

¹ Recipient of the Summer Dean's Fellowship from the College of Computer, Mathematical, and Natural Sciences.

² Recipient of the Inaugural HCIL Maryland Way Award for Research Excellence.

- Ghazaleh Keshavarz – HCIM (Fall 2019 – Spring 2020)
- Sravya Amancherla – HCIM (Fall 2018 – Summer 2019)
- Himanshi Manglunia³ – MIM (Fall 2018 – Spring 2019) – Co-advised with Lazar, A.
- Shruti Hegde⁴ – MIM (Fall 2018 – Spring 2019) – Co-advised with Lazar, A.
- Simone Pimento – HCIM (Fall 2018, Spring 2019) – Co-advised with Choe, E.K. & Lazar, A.
- Jaina Gandhi – HCIM (Fall 2017 – Spring 2019)
- Mayanka Jha⁵ – MIM (Fall 2017 – Spring 2018)
- Riya Chanduka² – MIM (Fall 2017 – Spring 2018)
- Raj Parikh – HCIM (Fall 2017 – Fall 2018)
- Christine Vaing – HCIM (Fall 2017) – Co-advised with Findlater, L.

Independent Study

- Jaina Gandhi – HCIM (Spring 2018)
- Mayanka Jha – MIM (Fall 2018, Spring 2019)

Summer Internship

- Christine Vaing – HCIM (Summer 2018) Co-advised with Yakubova, G.
- Brahm Persaud – HCIM (Summer 2018) Co-advised with Yakubova, G.

Master Thesis (2009 – 2011)

- Konstantina Stasinou – INFO-TEL (Spring 2011) – with Kouroupetroglou, G. (advisor)
- Thomas Papaspyrou – INFO-TEL (Spring 2010, Fall 2010) – with Kouroupetroglou, G. (advisor)
- Anna Sarantidou – INFO-TEL (Fall 2008) – with Kouroupetroglou, G. (advisor)
- Aristotelis Skiadas – EA (Fall 2010) – with Kouroupetroglou, G. (advisor)
- Spyridoula Emmanouil – EA (Spring 2009, Fall 2009) – with Kouroupetroglou, G. (advisor)

Undergraduate Students

iSchool: College of Information Studies, University of Maryland, College Park

CS: Computer Science, University of Maryland, College Park

CMP E: Computer Engineering, University of Maryland, College Park

DCC: Design Cultures & Creativity, Honors College, University of Maryland, College Park

ECS: Electronic Computer Systems, Technological Educational Institute of Piraeus, Greece

LATLAB: Computer Science, Linguistic and Assistive Technologies Laboratory, Queens College, CUNY

Research Project

- Ernest Essuah Mensah – CS (Spring 2020 – Present)
- Dazhi Peng – CS (Summer 2020)
- Elizabeth Beers – CS (Fall 2019 – Spring 2020)
- Stuti Deshpande – CS & Linguistics (Fall 2019)
- Ebrima Jarjue – iSchool (Fall 2017 – Spring 2018)

Summer Internship

- Ebrima Jarjue⁶ – iSchool (Summer 2018)
- June Xu – DCC & CMP E (Summer 2018)
- Jennifer Marfino⁷ – LATLAB (Summer 2013) – with Huenerfauth, M. (advisor)
- Fang Zhou Yang⁸ – LATLAB (Summer 2013) – with Huenerfauth, M. (advisor)
- Wesley Clarke⁹ – LATLAB (Summer 2012) – with Huenerfauth, M. (advisor)

³ Recipient of the Research Improvement Grant (RIG-II).

⁴ Recipient of the Research Improvement Grant (RIG-II).

⁵ Recipient of the Research Improvement Grant (RIG-II).

⁶ Recipient of the Distributed Research Experiences for Undergraduates (DREU) from AccessComputing & CRA-W.

⁷ Recipients of the NSF Undergraduate Research Experience Award.

⁸ Recipients of the NSF Undergraduate Research Experience Award.

⁹ Recipients of the NSF Undergraduate Research Experience Award.

Bachelor Thesis

- Evagelia Panagiotopoylou – ECS (Spring 2011) – with Kouroupetroglou, G. (advisor)

High School Students

Summer Internship

- Fatimah Mohammed – LATLAB (Summer 2012) – with Huenerfauth, M. (advisor)
- Giovanni Moriarty – LATLAB (Summer 2012) – with Huenerfauth, M. (advisor)
- Christine Singh – LATLAB (Summer 2012) – with Huenerfauth, M. (advisor)
- Evans Seraphin – LATLAB (Summer 2012) – with Huenerfauth, M. (advisor)

TEACHING

- **Graduate course.** Fall 2019 (N=25), FALL 2020 (N=24). *INST704: Inclusive Design*. College of Information Studies, University of Maryland, College Park.
- **Graduate course.** Spring 2020 (N=6). *INST808: Seminar in Quantitative Research Methods & Data Analysis*. College of Information Studies, University of Maryland, College Park.
- **Undergraduate course.** Spring 2019 (N=61). *INST314: Statistics for Information Science*. College of Information Studies, University of Maryland, College Park.
- **Graduate course.** Fall 2017 (N=34), Fall 2018 (N=26). *INST627: Data Analytics for Information Professionals*. College of Information Studies, University of Maryland, College Park.
- **Graduate course.** Spring 2010 (N=20, 42 hours). *Creating Accessible Educational Materials*. Special Ed. Program with Emphasis on Physical Activity and Inclusion, Specialization Programs, University of Macedonia.
- **Vocational training program for Blind High School Graduate.** Fall 2009 – Spring 2010 (N=16, 160 hours). *Computer Technologies*. School for the Disabled, Ministry of Employment and Social Protection, Greece. *A highly competitive position requiring over 100 hours of educational experience with blind people.
- **Web accessibility workshop for CS Professionals.** September 2010 (2 days). *The Challenge of Accessibility in Cypriot Mass Media: WWW Accessibility*. TrueRespect, CYTA, Nicosia, Cyprus.
- **Training workshop for children with visual impairments.** Summer 2010 (one day). *Free Assistive Technologies*. The 16th Int'l Camp on Communication & Computers for All Blind and Visually Impaired Youngsters, Athens, Greece.
- **Training workshop for children with visual impairments.** Summer 2010 (one day). *Audio Access to Math: Let's Do It*. The 16th Int'l Camp on Communication & Computers for All Blind and Visually Impaired Youngsters, Athens, Greece.
- **Training workshop for Government Employees.** July 2008 (3 days). *Digital Center's Products and Assistive Technology Services*. Institute for Social Protection and Solidarity, Greece.
- **Training course for TIM Hellas Employees serving as volunteers.** Fall 2006 (N=10, 40 hours). *Transformation of books in accessible formats for students with visual impairment*. TIM Hellas Inc., Athens, Greece.
- **Seminar.** April 2006 (2 days). *Information Technology to Support People with Disabilities in Libraries*. University of Athens, Greece. Funded by: Ministry of Education.

SERVICE TO THE PROFESSION

Editorial Board Member

ACM Transactions on Accessible Computing (TACCESS) 2018-2021

Lead Guest Editor

ACM Transactions on Accessible Computing (TACCESS) 2019-2020

Special Issue on Technology to Support Independent Orientation & Mobility of People with Visual Impairments

Organizing Committee

<i>Treasurer</i> – ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)	2020
<i>Accessibility Co-Chair</i> – ACM SIGCHI Conference on HCI with Mobile Devices and Services (MobileHCI)	2020
<i>Associate Chair</i> – ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)	2019
<i>Student Research Competition Co-Chair</i> – ACM SIGACCESS	2018

Program Committee

ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)	2016-2020
International Cross-Disciplinary Conference on Web Accessibility (W4A)	2017-2020
International Conference on Computers Helping People with Special Needs (ICCHP)	2018-2020
IEEE Symposium on Computational Intelligence in Robotics Rehabilitation and Assistive Technologies	2018
ACL/ISCA Workshop on Speech and Language Processing for Assistive Technologies (SLPAT)	2016
ELRA Workshop on the Representation and Processing of Sign Languages (at LREC)	2016

Session Chair

ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)	2018
ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)	2017
ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)	2016

Mentor

ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)	2019
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Reviewer

ACM International Conference on Interaction Design and Children (IDC)	2019
ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play	2019
ACM/IEEE International Conference on Human-Robot Interaction (HRI)	2019
ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)	2015-2018
ACM Transactions on Accessible Computing (TACCESS)	2018
IEEE Haptics Symposium	2018
International Journal of Mass Emergencies and Disasters (IJMED)	2018
Scientific Computing with Python Conference (SciPy)	2017
IFIP TC.13 International Conference on Human-Computer Interaction (INTERACT)	2017
ACM Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)	2016
Research on Biomedical Engineering	2016
Universal Access in the Information Society (UAIS-Journal)	2016
Mobile Information Systems	2016
Computer Vision and Image Understanding (CVIU)	2015
ELRA Workshop on the Representation and Processing of Sign Languages (at LREC)	2015
Workshop on Sign Language Translation and Avatar Technology (SLTAT)	2015

Panel of Judges

ACM ASSETS Student Research Competition	2016
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Conference Secretariat/Web

Workshop on Gesture in Embodied Communication and Human-Computer Interaction (GW)	2011
IAPR Workshop on Cognitive Information Processing (CIP)	2008
AFIM/AIMI/DEGEM/HACI Sound and Music Computing Conference (SMC)	2007

SERVICE WITHIN DEPARTMENT/COLLEGE

Committee Member

PhD Program, College of Information Studies, University of Maryland	2019-2020
College Advisory, College of Information Studies, University of Maryland	2019-2020
Faculty Search, College of Information Studies & Criminology, University of Maryland	2019-2020
HCIM Accessibility Specialization, College of Information Studies, University of Maryland	2019-2020
GHC Student Nomination, College of Information Studies, University of Maryland	2019
MIM, College of Information Studies, University of Maryland	2018-2019
HCIL Reboot Subcommittee, University of Maryland	2018-2019
HCIC Student Nomination, University of Maryland	2018
Diversity, College of Information Studies, University of Maryland	2017-2018
Research, Centers and Collaboration, College of Information Studies, University of Maryland	2017-2018

Dissertation/Proposal/Integrative Paper/First Year Review Committee

Emma Dixon – Member, Integrative Paper, PhD, iSchool	2020
Utkarsh Dwivedi – Chair, First Year Review Portfolio, PhD, iSchool	2019
Yuhan Luo – Member, Integrative Paper, PhD, iSchool	2019
Lingzi Hong – Member, Dissertation Defense, PhD, iSchool	2019
Emma Dixon – Member, First Year Review Portfolio, PhD, iSchool	2019
Lingzi Hong – Member, Proposal Defense, PhD, iSchool	2018
Yuhan Luo – Member, First Year Review Portfolio, PhD, iSchool	2018
Marianna J. Martindale – Member, Integrative Paper, PhD, iSchool	2017

Other Service

CUNY-NLP Seminar Student Chair: biweekly seminar series on Comp. Ling., Spring and Fall	2013
Media and Communications Officer: International Camp on Communication & Computers for All Blind and Visually Impaired Youngsters (ICC), University of Athens, Greece.	2010

SERVICE WITHIN UNIVERSITY

Outreach

Co-organizing the HCAI Workshop at the HCIL Symposium	2020
Contributing to the success of the Remote HCIL Symposium: 3 student talks and 1 poster	2020
Representative for University of Maryland, College Park in ACCESSCOMPUTING	2017-2020
Table Leader at the ACM CHI Diversity Lunch	2018-2019
Contributing to the success of the HCIL Symposium: 3 student talks and 2 posters	2019
Representative for HCIL at the UMD ARLIS Retreat	2019
Representative for Trace Center at the European Disability Forum meeting on <i>Using AI to enhance accessibility – opportunities and risks of emerging technologies for persons with disabilities</i>	2018
Contributing to the success of the HCIL Symposium: 1 faculty talk and 4 student posters	2018

Reviewing Activities

Technical Reviewer, <i>Maryland Industrial Partnerships (MIPS) Program</i> , University of Maryland	2017
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Dissertation Proposal/Defense Committee

Jonggi Hong – Chair, Dissertation Proposal, PhD, CS	2020
Alison Marie Renner – Member, Dissertation Defense, PhD, CS	2020

PANELIST

Panelist, Trust and Responsibility in Design, World Interaction Design Day, UX Terps, UMD	2019
Review Panel, National Institute on Disability, Independent Living, and Rehabilitation Research	2019
Panel on REUs and Graduate School, OurCS@UW+AccessComputing, University of Washington	2019

Review Panel, National Science Foundation (NSF) 2018
 Panelist, MD Tech Connect 2017

TALKS, LECTURES, AND OTHER PRESENTATIONS

Machine Teaching: Enabling End-users to Innovate and Build AI-infused Systems May 2020
[Talk] Workshop on Human-Centered AI, HCIL Symposium, University of Maryland

Disability, AI, and Teachable Machines May 2020
[Guest Lecture] Computer Science Undergraduate Honors Program, University of Maryland

Synthesizing Syntactic Facial Expressions in ASL Animations¹⁰ April 2020
[Invited Talk] Motion Light Lab, Gallaudet University

Disability, AI, and Teachable Machines¹¹ April 2020
[Talk] iSchool Alumnus of the Year, College of Information Studies, University of Maryland

Disability, AI, and Teachable Machines¹² March 2020
[Invited Talk] Department of Computer Science, University of Milan

AI for Accessibility November 2019
[Invited Talk] LTS Seminar, Laboratory for Telecommunications Science

Teachable Machines in Accessibility November 2019
[Invited Talk] Accessibility Seminar, School of Computer Science, Carnegie Mellon University

Captioning Practices in Deaf Vlogs on YouTube October 2019
 Kerns, J., Beers, E., and **Kacorri, H.**
[Poster] The 21st Int'l ACM SIGACCESS Conference on Computers and Accessibility

Cross-disability Access Strategies for Key Emerging Technologies July 2019
[Talk] U.S. Access Board Meeting

Teachable Object Recognizers for People with Visual Impairments April 2019
[Invited Talk] OurCS@UIW+AccessComputing, University of Washington

#HandsOffMyADA: A Twitter Response to the ADA Education and Reform Act April 2019
[Talk] Disability Summit, University of Maryland, College Park

Cross-disability Access Strategies for Key Emerging Technologies September 2018
[Talk] U.S. Access Board Meeting, University of Maryland, College Park

What Blind User Trajectories Tell Us About the Environmental Factors in Indoor Navigation May 2018
[Talk] HCIL Symposium, University of Maryland, College Park

Accessibility at the Intersection of Users and Data April 2018
[Invited Talk] Interactive Systems Research Center, University of Maryland, Baltimore County

Accessible, Assistive, and Rehabilitative Technologies at the Intersection of Users and Data April 2018
[Invited Talk] Human Computer Interaction Lab, University of Maryland, College Park

Accessible, Assistive, and Rehabilitative Technologies at the Intersection of Users and Data March 2018
[Invited Talk] Computer Science Seminar Series, Virginia Tech Northern Virginia Center

ASL Animation Synthesis March 2018

¹⁰ Cancelled due to COVID-19.

¹¹ Cancelled due to COVID-19.

¹² Cancelled due to COVID-19.

[Invited Lecture] PULSAR, Language Science Center, University of Maryland, College Park

Accessibility at the Intersection of Users and Data <i>[Invited Talk] MD Tech Connect</i>	December 2017
Synthesizing Syntactic Facial Expressions in ASL Animations <i>[Invited Talk] CLIP Colloquium, University of Maryland, College Park</i>	October 2017
Where users and data intersect to drive innovation for accessible, assistive and rehabilitative technologies <i>[Invited Talk] Purdue University</i>	March 2017
Where users and data intersect to drive innovation for accessible, assistive and rehabilitative technologies <i>[Invited Talk] Stevens Institute of Technology</i>	March 2017
Continuous Profile Models in ASL Syntactic Facial Expression Synthesis <i>[Poster] 11th Annual Machine Learning Symposium, The New York Academy of Sciences</i>	March 2017
Data-Driven Synthesis and Evaluation of Syntactic Facial Expressions in ASL Animation <i>[Invited Talk] College of William & Mary</i>	February 2017
Data-Driven Technology Supporting Human Capabilities <i>[Invited Talk] University of Maryland – College Park</i>	February 2017
People with Visual Impairment Training Personal Object Recognizers <i>[Guest Lecture] Computer Vision (16-385), Carnegie Mellon University</i>	January 2017
Continuous Profile Models in ASL Syntactic Facial Expression Synthesis <i>[Poster] Rising Stars in EECS, Carnegie Mellon University</i>	November 2016
Supporting Orientation and Object Recognition for Blind People <i>[Talk] HCII Seminar Series, Carnegie Mellon University</i>	October 2016
Data-Driven Synthesis and Evaluation of Syntactic Facial Expressions in ASL Animation <i>[Invited Talk] Connected Experience Lab, HCII, Carnegie Mellon University</i>	July 2016
Measuring Participant Characteristics that Relate to Sign Language Technology Acceptance Kacorri, H. , Huenerfauth, M., Ebling, S., Patel, K., Willard, M., Menzies, K. <i>[Poster] Effective Access Technologies Conference, Rochester, NY, USA.</i>	November 2015
Incorporating Users in Tigres Research and Development Kacorri, H. , Poon, S., Hendrix, V., Kushner, G., and Ramakrishnan, L. <i>[Poster] Computing Sciences Summer Student Poster Session, Berkeley Lab</i>	August 2015
Automatic Recognition of Unified Parkinson’s Disease Rating from Speech with Acoustic, i-Vector and Phonotactic Features An, G., Brizan, D.G., Kacorri, H. , Ma, M., Morales, M., Syed, A.R., Rosenberg, A. <i>[Poster] Computer Science Student Workshop, Graduate Center CUNY</i>	May 2015
Data-Driven Models of Linguistic Facial Expressions for ASL Animation <i>[Invited Talk] Department of Informatics and Telecommunications, University of Athens</i>	June 2014
How to have a fun internship at TRL? Design and Implement CapCap! <i>[Talk] IBM Research – Tokyo: Internship Final Presentation</i>	September 2013
Models of Linguistic Facial Expressions for American Sign Language Animation <i>[Poster] New York Women in Mathematics and Computing Workshop</i>	May 2013
<i>[Poster] Computer Science Student Workshop, Graduate Center CUNY</i>	May 2013

[Poster] Google New York Regional PhD Summit February 2013
 Models of Linguistic Facial Expressions for American Sign Language Animation October 2012
 [Talk] Doctoral Consortium
 [Poster] The 14th Int'l ACM SIGACCESS Conference on Computers and Accessibility.

SELECTED PRESS COVERAGE

“Animating Online Text into Sign Language” April 2012
 CUNYMedia: <http://goo.gl/ZeR0Vi>

“University of Athens: Student volunteering program in support of students with disabilities” December 2010
 An article about the student-volunteering program the Accessibility Unit of University of Athens was running to help other students with disabilities. *Disabled.GR Magazine*: <http://goo.gl/Ustt7B>

“Assistive Technologies – University of Athens” January 2009
 A TV program focusing on the research projects at the Speech and Accessibility Laboratory at University of Athens. *Orestis Theodorou, “Orizontes” at KYDON TV*: <http://goo.gl/5Hx71B>, <http://goo.gl/EYY0fd>

PROFESSIONAL AFFILIATION & MEMBERSHIP

- Member of Association for Computing Machinery (ACM) 2014-2020
 Special Interest Group on Accessibility and Computing (SIGACCESS)
 Special Interest Group on Computer-Human Interaction (SIGCHI)
 ACM Council on Women in Computing (ACM-W)
- Member of Association for the Advancement of Artificial Intelligence (AAAI) 2018-2021
- Member of the Association for Computational Linguistics (ACL) 2016
 Special Interest Group on Natural Language Generation (SIGGEN)
 Special Interest Group on Speech and Language Processing for Assistive Technologies (SLPAT)
- Member of the International Speech Communication Association (ISCA) 2016
- Affiliate, Lawrence Berkeley National Laboratory 2015-2017