Automatic Recognition and Analysis
of American Sign Language
May 15, 2019
Logan Center Terrace Seminar Room
The University of Chicago

Breakfast, 9am

Opening remarks, 9:20am
Diane Brentari and Karen Livescu

Session 1, 9:30-11:15am
Discussant Pedro Lopes, University of Chicago

- Creating Useful Applications with Imperfect Sign Language Recognition Technologies
  Matt Huenerfauth, Rochester Institute of Technology

- ASL-Search: A User-Powered American Sign Language Dictionary
  Danielle Bragg, Microsoft Research

- Improving resources for interpreter training: a data-driven approach to realistic fingerspelling
generation: The American Sign Language Avatar Project
  Rosalee Wolfe, DePaul University

Session 2, 11:30-1:15pm
Discussant Jason Riggle, University of Chicago

- Linguistic Foundations for Computationally Efficient and Scalable Sign Recognition
  Carol Neidle, Boston University and Dimitris Metaxas, Rutgers University

- Linguistically-Driven Machine Learning Methods for ASL Recognition
  Dimitris Metaxas, Rutgers University and Carol Neidle, Boston University

- Fingerspelling recognition in the wild
  Bowen Shi, Aurora Martinez del Rio, Jonathan Keane, Jonathan Michaux, Greg Shakhnarovich, Diane
  Brentari, and Karen Livescu, TTIC and University of Chicago

Lunch Break, 1:15-2:30

Session 3, 2:30-4:15
Discussant Allyson Ettinger, TTIC/University of Chicago

- How to analyze thousands of hours of video in sign language research?
  Aleix Martinez, Ohio State University

- What does AU17 ‘chin raiser’ mean in ASL?
  Ronnie Wilbur, Purdue University

- Phonetic and phonological reduction of fingerspelled forms
  Aurora Martinez del Rio, Bowen Shi, Jonathan Keane, Jonathan Michaux, Greg Shakhnarovich, Diane
  Brentari, Julia Kersten, and Karen Livescu, TTIC and University of Chicago

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Institute at Chicago (TTIC), the Chicago Linguistics Society (CLS), the University of Chicago Linguistics Department, and the
Center for Gesture Sign and Language (CGSL)

ASL-English interpreting will be provided. Persons with disabilities who need an accommodation in order to participate should
contact Zena Levan (zena@uchicago.edu).