Leimin Tian

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Research Interests

Affective Computing, Human-Robot Interaction, Social Robotics, Human-Centered AI, Digital Health

Education

- Ph.D. in Informatics. The University of Edinburgh. 2013–2018.

    - *Thesis:* "Recognizing Emotions in Dialogues with Acoustic and Lexical Features"
    - *Supervisors:* Prof. Johanna D. Moore and Dr. Catherine Lai

- M.Sc. in Artificial Intelligence (*with Distinction*). The University of Edinburgh. 2012–2013.

    - *Dissertation:* "Emotion Recognition using Feature-Level Fused Audio-Visual Data"
    - *Supervisors:* Prof. Johanna D. Moore and Dr. Catherine Lai

- B.Eng. in Artificial Intelligence. Beijing University of Posts and Telecommunications. 2008–2012.

    - *Dissertation:* "An Application of Audio-Visual Emotion Recognition"
    - *Supervisors:* Prof. Xiaojie Wang and Dr. Yongbin Liu

Grants and Awards

- Monash University Interdisciplinary Research Seed Grant. (AUD 50,000) Jan. 2020–Dec.2020.

- Monash University Faculty of IT Early Career Researcher Seed Grant. (AUD 13,000) July 2019–Aug.2020.

- The Fiorella De Rosis Award for the best Doctoral Consortium paper at ACII2015 conference.

- Fully sponsored by the Institute of Language, Cognition and Computation (ILCC), School of Informatics, the University of Edinburgh for the duration of PhD.

Selected Publications

For a full list of my publications please see ORCID or Google Scholar.

- Shujie Zhou, **Leimin Tian**. Would you help a sad robot? Influence of robots' emotional expressions on human-multi-robot collaboration *RO-MAN*. 2020.

- Michal Muszynski, **Leimin Tian**, Catherine Lai, Johanna Moore, Theodoros Kostoulas, Patrizia Lombardo, Thierry Pun, Guillaume Chanel. Recognizing Induced Emotions of Movie Audiences From Multimodal Information *IEEE Transactions on Affective Computing*. 2019.

- **Leimin Tian**, Johanna D. Moore, Catherine Lai. Polarity and Intensity: the Two Aspects of Sentiment Analysis *2018 ACL Grand Challenge and Workshop on Human Multimodal Language (Challenge-HML)*. 2018.

- **Leimin Tian**, Michal Muszynski, Catherine Lai, Johanna D. Moore, Theodoros Kostoulas, Patrizia Lombardo, Thierry Pun, Guillaume Chanel. <u>Recognizing Induced Emotions of Movie Audiences: Are Induced and Perceived Emotions the Same?</u> *2017 International Conference on Affective Computing and Intelligent Interaction (ACII)*. 2017 **(Best Paper Nominee)**.

- **Leimin Tian**, Johanna D. Moore, Catherine Lai. <u>Recognizing Emotions in Spoken Dialogue with Hierarchically Fused Acoustic and Lexical Features</u>. *Spoken Language Technology Workshop (SLT) 2016*. 13–16 Dec., 2016.

Teaching and Supervision

- *Co-teaching unit <u>ECE4078</u> (Intelligent Robotics):* Monash University. July 2020–Now.

- Supervision:

  - *Main supervisor, Master's minor thesis:* Shuyi Cao. Monash University. Mar. 2019–Now.
  - *Co-supervisor, ECSE Final Year Project:* Borislav Rakic. Monash University. Mar. 2019–Now.
  - *Co-supervisor, PhD student:* Chathurika Palliya Guruge. Monash University. Feb. 2019–Feb. 2020.
  - *Main supervisor, Master's minor thesis:* Shujie Zhou. Monash University. Mar. 2019–Mar. 2020.
  - *Main supervisor, Honours project:* Duc Huy Tran. Monash University. Mar. 2019–Mar. 2020.
  - *Co-supervisor, MSc dissertation:* Stanley Wang. The University of Edinburgh. June 2017–Aug. 2017.
  - *Co-supervisor, MSc dissertations:* Chenyu Wang; Xinran Shi. The University of Edinburgh. June 2016–Aug. 2016.

Work Experience

- *Consultant.* EmoTech Ltd. 19th Sep. 2016–19th Dec. 2016.

  - *AI of Emotion Project:* Designed and developed the emotion recognition, emotional interaction modelling, and emotion synthesis modules of Olly, a domestic robot serves as a personal assistant.

Technical Skills

- *Cloud computing and high performance computing:* <u>Google Colab</u>, <u>AWS</u>, <u>Massive</u>

- *Programming languages:* Python (primary), Matlab, Perl

- *Machine Learning:* Keras, Scikit-Learn, R, PyBrain, WEKA, SPSS

- *Signal processing and annotation:* OpenSMILE, Praat, ELAN, Amazon Mechanical Turk

- *Other:* Linux, SSH, LaTeX

Service

- *Junior Executive Committee Member.* Association for the Advancement of Affective Computing (AAAC). Feb. 2018–Present.

- *Committee Member.* Faculty of IT's Early Career Academic (ECA) committee. Feb. 2019–Feb. 2020.

- *Committee Member.* British Science Association (Edinburgh Branch). Sep. 2012–Jun. 2018.

References

Please contact me for my references.