

Assistant Professor  
Human Media Interaction, University of Twente  
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affective computing | social signal processing  
nonverbal | paralinguistics | voice analytics  
humans & technology | art, science, & technology

www | google scholar | linkedin | twitter

## Bio

Khiet Truong is an assistant professor in the Human Media Interaction group, University of Twente, working in the areas of Affective Computing and Social Signal Processing. Her interests lie in the automatic analysis and understanding of verbal and nonverbal (vocal) behaviors in human-human and human-machine interaction, and the design of socially interactive technology to support human needs. Her main research focus is in paralinguistics and (automatic) speech analysis of speaker characteristics (mental, physical, and socio-affective states). She has been/is General Chair for ICMI2020, Area co-Chair for Interspeech 2017 and 2015, Social Media Chair ACII2017, Workshop Chair ICMI 2018, and Tutorial Chair ACII 2019. She is currently member of the Executive Committee of the AAAC (Association for the Advancement of Affective Computing) and Associate Editor for the IEEE Trans. on Affective Computing. According to Google Scholar (h-index 25), her papers have been cited more than 2000 times (> 10 journal papers, > 65 proceedings papers).

## Professional experience

07/2014 - current Assistant professor, Human Media Interaction, University of Twente  
06/2014 - 09/2015 Lecturer in Human Robot Interaction, Artificial Intelligence, Radboud University  
12/2013 - 05/2017 Postdoctoral researcher, Human Movement Science, Free University Amsterdam  
11/2011 - 03/2012 Visiting researcher, Computational Linguistics and Phonetics, Saarland University  
11/2009 - 12/2009 Visiting researcher, IDIAP Research Institute  
05/2009 - 12/2013 Postdoctoral researcher, Human Media Interaction, University of Twente  
02/2005 - 02/2009 PhD student, TNO Human Factors

## Education

02/2005 - 02/2009 Doctorate (Computer Science), University of Twente  
Title: How does real affect affect affect recognition in speech?  
Promotor and co-promotor: Prof.dr. Franciska de Jong (UT) and Prof.dr.ir. David van Leeuwen (RU)  
09/2005 - 07/2004 Master (Computational) Linguistics, Utrecht University  
European Masters in Language and Speech  
Title: Automatic pronunciation error detection in Dutch as a second language: an acoustic-phonetic approach  
Supervisors: Dr. Helmer Strik (RU), Dr. Catia Cucchiarini (RU)

## Projects

2019 - now Responsible AI for child-robot-media interaction, in collaboration with Sound and Vision Institute (SIDN): speech communication in child-robot interaction  
2019 - now Responsible Design: multi-sensory (wearable) interaction for people with PIMD (ClickNL)  
2017 - now (Automatic) Emotion recognition in older adults with dementia, in collaboration with eScience Center (Netherlands eScience Center)  
2015 - now Smart Social Systems and Spaces for Living Well (4TU): laughter in interaction  
2014 - 2018 SQUIRREL (EU-FP7): child-robot interaction, speech emotion recognition  
2013 - 2017 SENSEI (COMMIT): speech-based exercise intensity detection  
2012 - 2013 Croatian Memories: nonverbal analysis in oral history  
2009 - 2013 SEMAINE (EU-FP7): prosody-based backchannel prediction, turn-taking management  
2009 - 2013 SSPNet (EU-FP7): social signal processing, laughter, prosody in interaction  
2005 - 2009 MultimediaN (BSIK): automatic laughter detection, speech emotion recognition

## Supervision PhD students

As main supervisor: 2 completed, 3 ongoing.

## Teaching

Interaction Technology (MSc) Speech Processing (5EC), Affective Computing (5EC), Foundations of Interaction Technology (5EC), capita selecta, advanced research projects, graduation projects

## Academic service (a selection)

Executive committee Association for the Advancement of Affective Computing (AAAC)

Associate editor IEEE Trans. on Affective Computing

Tutorial chair 8th International Conference on Affective Computing (ACII2019)

Workshop chair 20th ACM International Conference on Multimodal Interaction (ICMI2018)

Co-Organizer 5th International Workshop on Laughter and other Non-Verbal Vocalisations (2018)

Area chair Interspeech 2017, Interspeech 2015

Reviewer (conference) Interspeech (2019-2011), IEEE ICASSP (2020-2013), Speech Prosody (2020-2014), ACII (2019-2013), ACM ICMI (2018-2012), ACM/IEEE HRI (2019, 2016, 2015), LREC (2020-2018), TEI (2019-2018)

Reviewer (journal) Frontiers in HMI, Speech Communication, Computer Speech and Language (and more)

## Publications (a selection)

Nazareth, D. S., Tournier, E., Janse, E., Heylen, D., Westerhof, G. J., & Truong, K. P. (2019). An acoustic and lexical analysis of emotional valence in spontaneous speech: Autobiographical memory recall in older adults. *Proceedings of Interspeech*, 3287–3291.

Kim, J., Truong, K. P., & Evers, V. (2018). Automatic temporal ranking of children's engagement levels using multi-modal cues. *Computer Speech & Language*, 50, 16–39.

Kim, J., Englebienne, G., Truong, K. P., & Evers, V. (2017). Towards Speech Emotion Recognition in the wild using Aggregated Corpora and Deep Multi-Task Learning. *Proceedings of Interspeech*, 1113–1117.

Neidlinger, K., Truong, K. P., Telfair, C., Feijs, L., Dertien, E., & Evers, V. (2017). AWElectric: that gave me goosebumps, did you feel it too? In *Proceedings of the 11th International Conference on Tangible, Embedded, and Embodied Interaction (TEI'17)*, 315–324.

Eyben, F., Scherer, K. R., Schuller, B., Sundberg, J., André, E., Busso, C., ... Truong, K. P. (2016). The Geneva Minimalistic Acoustic Parameter Set (GeMAPS) for Voice Research and Affective Computing. *IEEE Transactions on Affective Computing*, 7(2), 190–202.

Zaga, C., Lohse, M., Truong, K. P., & Evers, V. (2015). The effect of a robot's social character on children's task engagement: peer versus tutor. *Proceedings of the 7th International Conference on Social Robotics (ICSR2015)*, 704–713.

Truong, K. P., Nieuwenhuys, A., Beek, P., & Evers, V. (2015). A database for analysis of speech under physical stress: detection of exercise intensity while running and talking. *Proceedings of Interspeech*, 3705–3709.

Krikke, T. F., & Truong, K. P. (2013). Detection of nonverbal vocalizations using Gaussian Mixture Models: looking for fillers and laughter in conversational speech. *Proceedings of Interspeech*, 163–167.

Truong, K. P., & Heylen, D. K. J. (2012). Measuring prosodic alignment in cooperative task-based conversations. *Proceedings of Interspeech*, 843–846.

Truong, K. P., van Leeuwen, D. A., & de Jong, F. M. G. (2012). Speech-based recognition of self-reported and observed emotion in a dimensional space. *Speech Communication*, 54(9), 1049–1063.

Raaijmakers, S., Truong, K., & Wilson, T. (2008). Multimodal subjectivity analysis of multiparty conversation. *Proceedings of the 2008 Conference on Empirical Methods in Natural Language Processing*, 466–474.

Truong, K. P., & van Leeuwen, D. A. (2007). Automatic discrimination between laughter and speech. *Speech Communication*, 49, 144–158.