

# Curriculum Vitae

Merijn Bruijnes

## Bio

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Name: Merijn Bruijnes  
Gender: Male  
Address: Pastoor van Nuenenhof 9  
Postal code & City: 3511 RK Utrecht  
Phone: +31 6 1379 1583  
E-mail: merijnbruijnes@gmail.com  
Date of birth: 9 October 1984  
Website: [www.merijnbruijnes.nl](http://www.merijnbruijnes.nl)



## Awards

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### Best paper

S.J.I.M. Spitters, G.M.A. Sanders, [H.J.A. op den Akker](#) and [M. Bruijnes](#) *The recognition of acted interpersonal stance in police interrogations*, in *Proceedings of the 4th IEEE International Conference on Cognitive Infocommunications, CogInfoCom 2013, IEEE Hungary Section, IEEE Joint Chapter of IES and RAS, Hungary, Hungary, pp. 6, 2013* [[pdf](#)]

### COMMIT Media Award

*For extraordinary capability to generate media attention and explain scientific research to the general public. ("... [De] COMMIT/directie vindt dat hij / zij bovengemiddeld in staat is media-aandacht te genereren en wetenschappelijk onderzoek toegankelijk te maken aan een groot publiek.)*

## Talks

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TEDx TwenteU, 2015 ([link](#))  
Deep Learning Summit - Chatbots Track, 2016 (*invited talk*) ([link](#))

## International Experience

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Faculdade de Ciências e Tecnologia, Universidad Nova de Lisboa, Portugal, 2013.  
eINTERFACE'13: Touching Virtual Agents - Embodiment and Mind ([link](#))  
Institute for Creative Technology, University of Southern California, United States of America, 2014.  
Internship, creating a Virtual Suspect that can be interrogated by police trainees ([pdf](#))

## Scientific Publications

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2016

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### Journal Papers

Ströfer, Sabine, Elze G. Ufkes, Merijn Bruijnes, Ellen Giebels, and Matthijs L. Noordzij. "Interviewing Suspects with Avatars: Avatars Are More Effective When Perceived as Human." *Frontiers in psychology* 7 (2016). [\[html\]](#)

2015

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### Journal Papers

M. Bruijnes, H.J.A. op den Akker, S. Spitters, T.J.M. Sanders and Q. Fu [The recognition of acted interpersonal stance in police interrogations and the influence of actor proficiency](#). *Journal on multimodal user interfaces*, pages 1-24, 2015 [\[pdf\]](#)

### Book Chapters

M. Bruijnes, J.M. Linssen, H.J.A. op den Akker, M. Theune, S. Wapperom, C. Broekema and D.K.J. Heylen [Social Behaviour in Police Interviews: Relating Data to Theories](#). pp. 317-347. In *Conflict and Multimodal Communication*, F. D'Errico, I. Poggi, A. Vinciarelli and L. Vincze (eds), Springer Verlag, London, 2015 [\[pdf\]](#)

### Contributions to Proceedings

M. Bruijnes, H.J.A. op den Akker, A. Hartholt and D.K.J. Heylen [Virtual Suspect William](#). in *Proceedings of the 15th International Conference on Intelligent Virtual Agents, IVA 2015, Lecture Notes in Computer Science*, volume 9238, Springer Verlag, Switzerland, pp. 67-76, 2015 [\[pdf\]](#)

2014

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### Contributions to Proceedings

M. Bruijnes, S. Wapperom, H.J.A. op den Akker and D.K.J. Heylen [A Method to Evaluate Response Models](#). in *Proceedings of the 14th International Conference on Intelligent Virtual Agents, IVA 2014*, T. Bickmore, S. Marcella and C. Sidner (eds), *Lecture Notes in Computer Science*, volume 8637, Springer International Publishing, Switzerland, pp. 67-70, 2014 [\[pdf\]](#)

M. Bruijnes, S. Wapperom, H.J.A. op den Akker and D.K.J. Heylen [A Virtual Suspect Agent's Response Model](#). in *Fourteenth International Conference on Intelligent Virtual Agents (IVA 2014); Proceedings of the Workshop on Affective Agents*, L. Ring, Y. Leite and J. Dias (eds), *Gaips Intelligent Agents and Synthetic Characters Group, Porto Salvo, Portugal*, pp. 17-24, 2014 [\[pdf\]](#)

J.M. Linssen, T.F. de Groot, M. Theune and M. Bruijnes [Beyond Simulations: Serious Games for Training Interpersonal Skills in Law Enforcement](#). in *Proceedings of the 10th annual meeting of the European Social Simulation Association (ESSA 2014)*, *European Social Simulation Association, Universitat Autònoma de Barcelona, Barcelona*, pp. 127-130, 2014 [\[pdf\]](#)

R Peters, M. Bruijnes and H.J.A. op den Akker [How Turn-Taking Influences the Perception of a Suspect in Police Interviews](#). in *Creating the Difference - Proceedings of Chi Sparks 2014*, J.P. van Leeuwen, P.J. Stappers, M.H. Lamers and M.J.M.R. Thissen (eds), *The Hague University of Applied Sciences and CHI Nederland, The Netherlands*, pp. 86-89, 2014 [\[pdf\]](#)

2013

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### Journal Papers

[H.J.A. op den Akker](#), [M. Bruijnes](#), R.M. Peters and T. Krikke [Interpersonal stance in police interviews: content analysis](#). *Computational Linguistics in the Netherlands Journal*, 3:193-216, 2013 [\[pdf\]](#)

### Contributions to Proceedings

[M. Bruijnes](#) [Affective conversational models: interpersonal stance in a police interview context](#). in *Humaine Association Conference on Affective Computing and Intelligent Interaction, ASCII 2013*, IEEE Computer Society, USA, pp. 624-629, 2013 [\[pdf\]](#)

[M. Bruijnes](#) [Interpersonal Stance in Conflict Conversation: Police Interviews](#). in *Proceedings of the SSPNet Workshop on Conflict and communication. Multimodal Social Signals of conflict and negotiation in humans, animals, and machines*, Computational Social Sciences, Springer Verlag, Berlin, pp. 2, 2013 [\[pdf\]](#)

[M. Bruijnes](#), J. Kolkmeier, [H.J.A. op den Akker](#), [J.M. Linssen](#), [M. Theune](#) and [D.K.J. Heylen](#) [Keeping up stories: design considerations for a police interview training game](#). in *Proceedings of the Social Believability in Games Workshop (SBG2013)*, Centre for Telematics and Information Technology, University of Twente, Enschede, The Netherlands, pp. 14, 2013 [\[pdf\]](#)

[G. Huisman](#), [M. Bruijnes](#), J. Kolkmeier, [M.M. Jung](#), A. Darriba Frederiks and Y. Rybarczyk [Touching Virtual Agents: Embodiment and Mind](#). in *Innovative and Creative Developments in Multimodal Interaction Systems, Proceedings of the 9th IFIP WG 5.5 International Summer Workshop on Multimodal Interfaces, eINTERFACE 2013*, IFIP Advances in Information and Communication Technology, volume 425, Springer Verlag, Berlin, pp. 114-138, 2013 [\[pdf\]](#)

S.J.I.M. Spitters, G.M.A. Sanders, [H.J.A. op den Akker](#) and [M. Bruijnes](#) [The recognition of acted interpersonal stance in police interrogations](#). in *Proceedings of the 4th IEEE International Conference on Cognitive Infocommunications, CogInfoCom 2013*, IEEE Hungary Section, IEEE Joint Chapter of IES and RAS, Hungary, Hungary, pp. 6, 2013 [\[pdf\]](#)

2012

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### Contributions to Proceedings

[M. Bruijnes](#) [Social and Emotional Turn Taking for Embodied Conversational Agents](#). in *2012 ASE/IEEE International Conference on Social Computing and 2012 ASE/IEEE International Conference on Privacy, Security, Risk and Trust*, IEEE Computer Society, USA, pp. 977-978, 2012 [\[pdf\]](#)

### Reports

[H.J.A. op den Akker](#) and [M. Bruijnes](#) [Computational models of social and emotional turn-taking for embodied conversational agents: a review](#). Technical Report, TR-CTIT-12-13, Enschede, Centre for Telematics and Information Technology, University of Twente, Pages: 62, 2012 [\[pdf\]](#)

## Project Proposals

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“StarBot”	Granted	<p>*Bot (pronounced starbot) is a research project on telepresence robots for the general public. A COMMIT/ valorisation project by Merijn Bruijnes and Robby van Delden investigating the impact of telepresence robots in everyday life. The project investigates the opportunities and the social, ethical, and technical issues that come forward when we start using these ‘Skype on wheels’-robots in our every-day lives.</p> <p>(<a href="http://hmi.ewi.utwente.nl/IUALL/workpackages/starbot/">http://hmi.ewi.utwente.nl/IUALL/workpackages/starbot/</a>)</p>
“Tasty Bits and Bytes”	Granted	<p>The current popularity of ICTs that offer augmented or virtual reality experiences, such as Oculus Rift, Google Glass, and Microsoft Hololens, suggests that these technologies will become increasingly more commonplace in our daily lives. With this the question arises of how these mixed reality technologies will be of benefit to us in our day-to-day activities. One such activity that could take advantage of mixed reality technologies is the consumption of food and beverages. Considering the fact that the perception of food is highly multisensory, being not only governed by taste and smell, but to a strong degree by our visual, auditory and tactile senses, mixed reality technologies could be used to enhance our dining experiences. In the Tasty Bits and Bytes project we will explore the use of mixed reality technology to digitally (using visual, auditory, olfactory, and tactile stimuli) enhance the experience of consuming food and beverages. (<a href="http://www.tastybitsandbytes.com/">http://www.tastybitsandbytes.com/</a>)</p>
“Let Him Speak”	Granted	<p>"Let Him Speak" is een samenwerkingsproject van de Politieacademie (Team Verhoor) te Apeldoorn en de onderzoeksgroep Human Media Interaction van de Universiteit Twente in Enschede.</p> <p>In dit project wordt gewerkt aan een self-assessment tool voor gebruik door studenten van de Politieacademie in het kader van de opleiding getuigenverhoor. In deze tool wordt gebruik gemaakt van state of the art AI technologie voor analyse van een opgenomen verhoor. De medewerker zal zowel betrokken worden bij de opname en analyse van de verhoren als bij het ontwikkelen en implementeren van het systeem. Er wordt veel aandacht besteed aan de gebruikersinterface.</p> <p>Een eerste demonstrator van deze tool is voorzien aan het eind van het eerste jaar. In het tweede jaar wordt in nauwe interactie met de studenten en docenten gewerkt aan een leermiddel/serious game voor gebruik in de opleiding verhoor. Het project Let Him Speak is een stap in een proces waarin de Politieacademie samen met onderzoeksinstituten en bedrijfsleven werkt aan het ontwikkelen van ICT ondersteuning in de verhooropleiding. Het werk in Let Him Speak valt onder het nationale samenwerkingsverband tussen o.a. de Landelijke Eenheid en de UT in het lopende COMMIT/ project P2: Interaction for Natural Access.</p>

## Teaching

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<b>Courses</b>	<b>Period</b>	<b>Description</b>
Conversational Agents	2011-now	<p>In this course, attention will be given to different verbal and nonverbal behavioural characteristics, like speech, intonation, glance and gestures that humans show at communicating with both other people and machines. This behaviour is then related to different dialogue functions, including turn-taking, addressing others, back-channelling, that give shape to the communication process.</p> <p>The course is divided over two quarters, in which the first quarter will mostly cover literature and theory in both lectures and home study. During the second quarter, the student will have to choose from comprehensive practical assignments, such as building an on ontology based question-answering system for searching videos or participating in the GIVE challenge. It is recommended for the student to purchase the book "Using Language" of H.H. Clark to use it in this course.</p> <p>The final grade will be determined by two homework assignments the students will have to make in the first quarter and the bigger practical assignment of the second quarter.</p>
Capita Selecta	2012-now	<p>In the Capita Selecta, students get the opportunity to choose a particular HMI-related topic according to their interests. The students work independently at more in-depth insight and carry out research leading to a scientific paper and presentation of the results. The topic can vary; it can be chosen from a list of assignments (which can be found via the Capita Selecta HMI Blackboard site) or a student can propose his/her own topic. It is possible to take more than one (max. two) Capita Selecta courses, provided the topics are different. The students gain skills to prepare for the Master thesis.</p>
Research Topics	2012-now	<p>Research Topics is a course unit for an individual student (in exceptional cases for a small group of students). It is intended as a preparation for the Final Project. Main objectives are further deepening of the chosen specialisation within the Master, and further development of the student's research competencies. Research Topics will always be taken in the context of current research in the research group intended to supervise the Final Project. Research Topics typically entails an initial literature study and aims at the statement of a clear research or design question and planning for the Final Project.</p>
Master Theses	2012-now	<p>The final project is a 30-credit project completed over a half-year period, which rounds off the Master's programme. It is a research and/or development exercise. While the final project is frequently an individual project, some students choose to complete the assignment in groups of two or more. The final project may be developed and implemented internally (within the UT), it may also involve a commissioned assignment from a company or another higher education institution. Some projects are completed abroad. The project usually follows a preceding Research topics. The final project is a 'Master's test'. In completing the project, the student demonstrates that he/she merits the Master of Science qualification. While the substance</p>

of the assignment focusses on a specified field of study, it is assessed on the basis of a number of criteria. The following factors are key in earning a satisfactory result for the graduation assignment: to be able to clearly formulate a problem statement, to be able to identify relevant literature, to be able to draw up a work plan, to be able to adjust problem statement and work schedule in accordance with interim evaluations, to be able to analyse different possible solutions and to motivate a choice between them, to be able to communicate the research and design activities both written and in presentations, to show the ability of reflection on the problem, on the research/design approach, on the solution and on one's own performance, and finally to demonstrate creativity and the ability to work independently.

## **Professional experience**

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	<b>University of Twente</b>		Enschede
2015-now	Function: Entails:	Researcher Research, writing scientific proposals, and education	
2011-2015	Function: Entails:	PhD candidate Research and education.	
2010-2011	Function: Entailed:	Mentor Help students with their study and personal problems. Position involving confidentiality.	
2009-2010	Function: Entailed:	Student teacher Creating and giving new course.	
2007	Function: Entailed:	Research assistant Carrying out psychological experiments.	
	<b>Pearson Education Benelux</b>		Enschede- Amsterdam
2009	Function: Entailed:	Author Writing the Dutch book: "Dit is internet - Door de bril van twee generaties", in collaboration with Gerrit Bruijnes. ISBN: 978 90 430 1870 8	
2007	Entailed:	Writing the Dutch book: "Microsoft Office 2007 - in 10 minuten", in collaboration with Gerrit Bruijnes. ISBN: 978 90 430 1373 4	

## Education

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2010-2011	Master of Science in Psychology (Technical Cognition) Subject: Development of a spatial mental representation in an embodied artificial neural network using spatial route descriptions Supervisor: Prof. Dr. F. van der Velde	Enschede
2005-2010	Bachelor of Science in Psychology (Cognition Media and Ergonomics) Subject: Causes for segmentation of keying sequences: a predictive model Supervisor: Prof. Dr. Ing. W.B. Verwey	Enschede
2004-2005	Mechanical Engineering	Enschede
1997-2004	Pre-university secondary education (VWO)	Kampen