

Lisette De Jonge-Hoekstra

Researcher & Teacher Developmental Psychology
- Gestures, Speech and Learning

Developmental Psychology,
Department of Psychology
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RESEARCH EXPERIENCE

Developmental Psychology, University of Groningen — *PhD student*

FEBRUARY 2014 - PRESENT

Gesture-speech-environment coupling: Explaining the occurrence of gesture-speech mismatches from a dynamic systems perspective.

Supervisor: Prof Paul L.C. Van Geert

Daily supervisors: Dr Ralf F.A. Cox, Dr Steffie Van der Steen

CESPA, University of Connecticut — *Visiting scholar*

AUGUST 2018 - FEBRUARY 2019

Gesture-speech coupling and decoupling when children learn
- collaboration with Dr Wim T.J.L. Pouw.

Supervisor: Prof James A. Dixon

Developmental Psychology, University of Groningen — *Research assistant*

NOVEMBER 2012 - JULY 2013

Process-study onto an educational intervention involving coaching primary school teachers to elicit exploring and reasoning about STEM in (gifted) children.

Supervisors: Dr Henderien W. Steenbeek, Dr Baukje de Koning-Veenstra

TEACHING EXPERIENCE

Developmental Psychology, University of Groningen — *Teaching staff*

FEBRUARY 2014 - PRESENT

I teach and coordinate undergraduate (honours) courses about research skills and science communication, and supervise bachelor theses (no. supervised: 41) and master theses (no. supervised: 12). Previously, I was engaged as a first year students' mentor, and supervision of internships.

SKILLS

R, MATLAB, Python, SPSS,
Excel

Non-linear time series
analyses

Dynamic systems theory

Science communication

HONOURS & AWARDS

Prins Bernhard Cultuurfonds:
grant (€ 5000,-) to do
research at CESPA (2018).

Scholten-Cordes Fonds:
grant (€ 2500,-) to carry out
PhD-related research (2016).

**Groninger Alumnivereniging
Psychologie:** Nomination (1
out of 3) for best Psychology
master thesis (2012).

Psychology, University of Groningen
— *Student assistant*

FEBRUARY 2014 - PRESENT

I supervised four groups who needed additional support to complete their reports.

EDUCATION

Developmental Psychology, University of Groningen
— *Msc. (cum laude, ± top 5%)*

SEPTEMBER 2011 - AUGUST 2012

Courses: Language development; Diagnostics and Interventions; Developmental Psychopathology; Capita Selecta ADHD; Test- and questionnaire construction; Boundaries of psychology
Master thesis: Curious Minds: Children's Hands and their Scientific Understanding (grade: 9)

Psychology, University of Groningen
— *Bsc.*

SEPTEMBER 2008 - JULY 2011

PUBLICATIONS

Submitted/Under review

Pouw, W., De Jonge-Hoekstra, L., & Dixon, J.A. (2018). Stabilizing speech production through gesture-speech coordination.

Preprint: <https://psyarxiv.com/arzne/>

De Jonge-Hoekstra, L., Van der Steen, S., & Cox, R.F.A. (2018). Gestures, learning, and environmental properties.

Preprint: https://www.researchgate.net/publication/326610030_Gestures_learning_and_environmental_properties

In preparation

De Jonge-Hoekstra, L., Cox, R.F.A., Van der Steen, S., & Dixon, J. (in prep.). Complexity matching of gestures and speech during an easy and a difficult task.

De Jonge-Hoekstra, L., Pouw, W., Dixon, J.A., Van der Steen, S. & Cox, R.F.A. (in prep.). Beat our rhythm. How children move and speak when they work together.

Cox, R.F.A., De Jonge-Hoekstra, L., & Van der Steen, S. (in prep.). Fitts revisited: A trade-off study about gesture-coordination during a cognitive task.

De Jonge-Hoekstra, L., Cox, R.F.A., & Van der Steen, S. (in prep.). Learning by head movements: What happens when hand movements are restricted?

Janssen, H. M. H., De Jonge-Hoekstra, L. & Cox, R. F. A. (in prep.). Embedded, embodied communication and cognition: The case of a deafblind girl.

Published

De Jonge-Hoekstra, L., Van der Steen, S., Van Geert, P., & Cox, R. F. A. (2016). Asymmetric Dynamic Attunement of Speech and Gestures in the Construction of Children's Understanding. *Frontiers in Psychology*, 7, 1–19.
<http://doi.org/10.3389/fpsyg.2016.00473>

Full text: <https://www.frontiersin.org/articles/10.3389/fpsyg.2016.00473/full#B9>

Cox, R. F.A., Van der Steen, S., Guevara, M., De Jonge-Hoekstra, L., & van Dijk, M. (2016). Chromatic and Anisotropic Cross-Recurrence Quantification Analysis of Interpersonal Behavior. In *Recurrence Plots and Their Quantifications: Expanding Horizons* (pp. 209–225). Springer International Publishing.

Full text: https://www.researchgate.net/publication/299511690_Chromatic_and_Anisotropic_Cross-Recurrence_Quantification_Analysis_of_Interpersonal_Behavior

Blog posts

Van der Steen, S. & De Jonge-Hoekstra, L. (2019). Coordination in development: Caregiver-child synchrony
<https://mindwise-groningen.nl/coordination-in-development-caregiver-child-synchrony/>

De Jonge-Hoekstra, L. (2018, February). How do you like your noise?
<http://mindwise-groningen.nl/how-do-you-like-your-noise/>

De Jonge-Hoekstra, L. (2016, April). Gestures and speech – a balanced couple?
<http://mindwise-groningen.nl/gestures-and-speech-a-balanced-couple/>

For professionals in educational practice

Hoekstra, L., De Koning, B. & Wetzels, A. F. M. (2013). Hoe kunnen leerkrachten excellente kinderen ondersteunen tijdens Wetenschap & Techniek-lessen? *Betapunt Noord Magazine*, 14–15.

Full text: <http://www.betapuntnoord.nl/wp-content/uploads/2016/12/Betapunt-magazine-nr02-DEF-lowres.pdf>, p. 14.

De Koning-Veenstra, B., Hoekstra, L., Wetzels, A. F. M., Fraiquin, M. C. & Oldersma, F. (2013). *Excellentie en Wetenschap & Techniek-onderwijs in de bovenbouw van het basisonderwijs: Materialen voor leerkrachten en trainers*. Publicatie vanuit een samenwerking tussen de Rijksuniversiteit Groningen, TalentenKracht en Platform Bèta Techniek.

PRESENTATIONS

Conferences & Symposia

2019

De Jonge-Hoekstra, L., Pouw, W., Dixon, J.A., Van der Steen, S. & Cox, R.F.A. (2019). Team up! How do children move and speak when they work together? Poster presentation at Heymans Symposium, April 10, 2019.

2018

De Jonge-Hoekstra, L., Cox, R.F.A., & Van der Steen, S. (2018). Gestures, learning, and task properties. Poster presentation at 15th European Workshop on Ecological Psychology, June 12, 2018.

De Jonge-Hoekstra, L., Cox, R.F.A., Van der Steen, S., & Van Geert, P.L.C. (2018). Task properties and children's gestures and speech. Presentation at the Jean Piaget Society Conference, June 2, 2018.

De Jonge-Hoekstra, L., Adolph, K., Özyürek, A., Abney, D.H., & Bakker, A. (2018). Discussion session: How do children learn with their hands? Organizer and host of Discussion session at the Jean Piaget Society Conference, May 31, 2018.

De Jonge-Hoekstra, L., Cox, R.F.A., & Van der Steen, S. (2018). Gestures, learning, and task properties. Poster presentation at 15th European Workshop on Heymans Symposium, April 12, 2018.

2017

De Jonge-Hoekstra, L., Van der Steen, S., Cox, R. & Van Geert, P. (2017). Asymmetric coupling between gestures and speech during reasoning. Presentation at European Conference for Developmental Psychology, August 30, 2017.

2016

De Jonge-Hoekstra, L., Van der Steen, S., Cox, R. & Van Geert, P. (2016). Asymmetric dynamic attunement of speech and gestures as children learn: competing synergies? Presentation at 14th European Workshop on Ecological Psychology, July 8, 2016.

De Jonge-Hoekstra, L., Van der Steen, S., Cox, R. & Van Geert, P. (2016). Asymmetric dynamic attunement of speech and gestures in the construction of children's understanding. Presentation at VNOP conference, May 17, 2016.

2015

Hoekstra, L., Cox, R. & Janssen, M. (2015). Feel the rhythm: Embedded & embodied communication of a deafblind girl. Poster presentation at Heymans Symposium, April 8, 2015.

2014

Hoekstra, L., Van der Steen, S., Cox, R. & Van Geert, P. (2014). Exploring the dynamics of gestures in the construction of cognitive understanding. Poster presentation at VNOP conference, May 20, 2014.

Hoekstra, L., Van der Steen, S., Cox, R. & Van Geert, P. (2014). Exploring the dynamics of gestures in the construction of cognitive understanding. Poster presentation at Heymans Symposium, April 3, 2014.

Invited talks

2018

De Jonge-Hoekstra, L. (2018). Hand movements, task properties, and variability: Exploring data and theory. Presentation at the Cognitive Development Lab, Indiana University, December 7, 2018.

De Jonge-Hoekstra, L. (2018). Hand movements, task properties, and variability. Presentation at Infant Action Lab, New York University, November 7, 2018.

De Jonge-Hoekstra, L. (2018). Gestures, learning, and the environment: A study and considerations for fostering cognitive development. Presentation at Developmental Brownbag series, University of Connecticut, October 5, 2018.

De Jonge-Hoekstra, L. (2018). Gestures-speech (de)coupling and the environment. Presentation at Perception-Action-Workshop at CESP, University of Connecticut, September 28, 2018.

2014

Hoekstra, L. (2014). *Blogging: Scientific Storytelling*. Workshop at VNOP PhD day, November 25, 2014.

Hoekstra, L. (2013). *TalentenKracht: Handen van Kinderen en hun Wetenschappelijk Begrip: De constructie van een codeersysteem voor gebaren en handelen met materiaal en een exploratieve casestudy*. Presentation at the GAP-Alumnidag 2013, March 23, 2013.

COURSES

Writing your grant like a pro, University of Groningen

FEBRUARY 2019 - MARCH 2019

University Teaching Qualification, Center for Information Technology, University of Groningen

DECEMBER 2014 - FEBRUARY 2016

Introduction to Complexity, Santa Fe Institute en Portland State University (online course)

DECEMBER 2014

University Teaching Skills, Center for Information Technology, University of Groningen

SEPTEMBER 2014 - NOVEMBER 2014

University Teaching 101, John Hopkins University (online course)

MARCH 2014 - APRIL 2014

Introduction to Dynamical Systems and Chaos, Santa Fe Institute en Portland State University (online course)

JANUARY 2014 - MARCH 2014

VOLUNTEERING

Reading assistant, reading project Humanitas

SEPTEMBER 2014 - MAY 2015

Providing assistance to a young boy who had learning difficulties with reading and math.

Teaching assistant, primary school for special education "It Heechhof"

NOVEMBER 2011 - DECEMBER 2012

Providing assistance to teachers in Kindergarten and first grade.

PROJECTS

grow with the flow, podcast (research & theory)
— *Host and founder*

APRIL 2019 - PRESENT

<https://anchor.fm/lisette-de-jonge-hoekstra>

Mindwise, the Groningen Psychology blog
— *Editorial board*

SEPTEMBER 2014 - PRESENT

<http://mindwise.groningen.nl>

Coordination in autism, ADHD, and regular development
Dutch consortium of 5 Universities
— *Co-applicant*

AUGUST 2018 - PRESENT

<http://www.coordinationindevelopment.nl/>

Vereniging Nederlandse Ontwikkelingspsychologie (VNOP)
— *Organisation PhD day*

SEPTEMBER 2014 - NOVEMBER 2014

LANGUAGES

Dutch (native)

English (fluent)

Frisian (fluent)