Short curriculum vitae: Martijn Wieling

Education

2012   **PhD degree in Linguistics** (*cum laude*), Faculty of Arts, University of Groningen (UG). Dissertation title: *A Quantitative Approach to Social and Geographical Dialect Variation*. Promotores: Prof. John Nerbonne (University of Groningen / University of Freiburg) and Prof. Harald Baayen (University of Tübingen / University of Alberta).

2007   **Master of Science (MSc) Computing Science – Intelligent Systems** (*cum laude*), UG.

2007   **Master of Science (MSc) Behavioral Cognitive Neurosciences (BCN) – Computational Modeling of Cognition** (*cum laude*), UG.

2005   **Bachelor of Science (BSc) degree Computing Science** (*cum laude*), UG.

Academic appointments

6/2015 – present   **Assistant Professor** (0.75 FTE, with tenure), Department of Information Science, Faculty of Arts, University of Groningen (UG), the Netherlands.

9/2015 – present   **Post-doc** (0.1 FTE, for 6 months; UG) on Prof. Monika Schmid's NWO project: *The age effect in bilingual development*. I am co-supervisor of PhD student Nienke Meulman.

9/2013 – 5/2015   **Post-doc** (0.75 FTE; UG) during the first two years of my four-year NWO Veni grant project *Improving speech learning models and English pronunciation with articulography*.

9/2013 – 8/2014   **Post-doc** (0.2 FTE) with Prof. R. Harald Baayen at the Department of Quantitative Linguistics, University of Tübingen, Germany.

9/2012 – 82013   **Post-doc** (1 FTE) on a one-year **NWO Rubicon grant project** collaborating with Prof. R. Harald Baayen. Project title: *Investigating language variation physically*. Department of Quantitative Linguistics, University of Tübingen.

Research and teaching performance

- **60 publications** in peer-reviewed journals, edited books or conference proceedings (see http://www.martijnwieling.nl/publications for the full list), among which:
    - 30 papers as first author.
    - 6 publications (all as first author) in top journals in the humanities and social sciences: *Journal of Phonetics* (twice), *Journal of the Acoustical Society of America*, *Language*, *Computer Speech and Language*, *Computers and Education.*
    - 4 publications in Open Access journal *PLOS ONE* (2 as first author).
    - 1 invited publication as first author in *Annual Review of Linguistics*; only well-respected scientist in the field are invited to submit a paper to this journal.
- **Hirsch index of 16** (Google Scholar), despite having obtained my PhD in 2012.
- **70+ scientific presentations and short courses** (see http://www.martijnwieling.nl/presentations for the full list), among which:
    - 15 invited guest lectures and presentations at international workshops, conferences and summer/winter schools in the Netherlands, Belgium, Germany, Poland and the USA.
    - 8 invited multi-day advanced statistics courses at universities in Leiden, Amsterdam, Oldenburg, Tübingen, Cambridge, Toulouse and Montréal.

- 1 two-week course taught at the LSA Institute, Chicago together with Dr Jacolien van Rij. This is the foremost Summer School in Linguistics in the world. Our course was rated with a score of 9.4 (on a scale from 1 to 10).

Research grants (> € 500,000 as PI)

2017 ***Stichting Groninger Universiteitsfonds* grant** for purchasing a high-speed ultrasound laptop (~ € 13,750)

2017 **Interdisciplinary PhD position**, Young Academy of Groningen (**~ € 120,000**; with Michel Vols, Faculty of Law, UG)

2017 ***De Jonge Akademie* project grant** for conducting a study on the effectiveness for pronunciation training of visual feedback of the tongue using ultrasound (€ 4,000).

2016 **Digital Humanities Explored Project Grant**, University of Groningen (**€ 35,000**).

2016 – 2017 **Nvidia Hardware Grant** (twice: 2016, 2017), Titan X GPU (~€ 2,000).

2015 **VIVIS project grant** (*Vereniging van Instellingen voor mensen met een Visuele beperking*) to investigate the efficacy of automatic speech recognition software for people who have been blind since their birth (**€ 50,000**).

2015 ***De Jonge Akademie* project grant** (primary applicant) for a collaborative project on mapping dialect data with Bettina Speckmann (€ 8,000).

2013 **NWO Veni Award** (Netherlands Organisation for Scientific Research) for a four-year post-doc appointment at the University of Groningen (**€ 250,000**; an additional **€ 50,000** was contributed by the Faculty of Arts of the University of Groningen).

2012 **NWO Rubicon Fellowship** (Netherlands Organisation for Scientific Research) for a one-year post-doc appointment at the University of Tübingen (**€ 59,000**).

2011 – 2015 **Short Term Mobility Grant** (3 times: 2011, 2013, 2015) of the *Consiglio Nazionale delle Ricerche* awarded for a two-week research visit to the Institute of Computational Linguistics, CNR, Pisa (~ € 6,000).

Honors and Awards

2016 **European Young Research Award**, organized by *EuroScience*. This is a bi-yearly award for young researchers, which was awarded to me at the Euroscience Open Forum in Manchester.

2016 **Founding member of the Young Academy Groningen**, a group of 17 of the University of Groningen's best young scientists.

2015 **Member of the Young Academy (*De Jonge Akademie*)**, a group of 50 top young scientists in the Netherlands. The Young Academy is part of the Royal Netherlands Academy of Sciences. The election period is for five years.

2014 **Opas-Hänninen award for best young scholar's poster** at the Methods in Dialectology XV conference, Groningen (€ 500).

2012 **Best Poster Award** at the BCN Research School New Year's Meeting (€ 50).

2006 **Individual monthly scholarship** awarded by the board of BCN to the best four students for the duration of the second year of the MSc Behavioral Cognitive Neurosciences (total: € 2,220).

International collaboration (stays abroad)

- Research collaboration with **Prof. Simon Wood** (University of Bristol), **Prof. Harald Baayen** (University of Tübingen) and **Dr Jacolien van Rij** (UG) to write a book about using generalized additive modeling in Linguistics (2016-2017: 5x1 week at different universities).
- Three research collaborations on Tuscan dialectology and techniques from computational linguistics with **Dr Simonetta Montemagni, Istituto di Linguistica Computatazionale, Consiglio Nazionale Ricerche, Pisa, Italy** (2011-2015: 3x2 weeks in Italy).
- Research collaboration analyzing articulography data with **Dr Mark Tiede, Haskins Laboratories, New Haven, United States** (9/2014, 4/2016: 2x1 week in the USA).
- Research collaboration running articulography experiments with **Dr Patti Adank, University College London, United Kingdom** (4/2014: 2 weeks in the UK).
- Research collaboration conducting generalized additive modeling statistical analysis with **Prof. Simon Wood, University of Bath, United Kingdom** (3/2014: 1 week in the UK).
- Research collaboration on English dialectology with **Prof. Clive Upton, University of Leeds, United Kingdom** (2/2012: 1 week in the UK).
- Research collaboration on Catalan dialectology with **Dr Esteve Valls, University of Barcelona, Spain** (2/2011: 2 weeks in Spain).
- Research collaboration on Dutch dialectology with **Prof. Harald Baayen, University of Alberta, Edmonton, Canada** (7/2010: 6 weeks in Canada).

International review activities

- **International panel member of the Multidisciplinary Assessment Committee** for the Canada Foundation for Innovation (2017). The two-day meeting is in April in Ottawa. Total budget: CAD$ 550 million (about CAD $50 million in my panel).
- **International reviewer for the German Research Foundation** (DFG; 2014 and 2015).
- **International committee member and reviewer for the Hungarian Research Fund** (OTKA: international reviewer in 2012-2013, committee member in 2014).
- **Dissertation committee member** for Dr Junru Wu (Leiden University, defense: July 2015).
- **Ad hoc reviewer for various journals** including *The Journal of the Acoustical Society of America, Language Dynamics and Change, Proceedings of the National Academy of Sciences, Psychophysiology, Molecular Autism, Language Variation and Change,* and *PLOS ONE.*

Leadership

2017 – present **Co-organizer** of the yearly two-day *TABU Dag* broad linguistics conference in Groningen (about 150 participants every year).

2015 – present **Member of the Research Data Committee** of the Faculty of Humanities, UG.

2014 – present **Member of the international steering committee** of the Methods in Dialectology conference series (Methods XVI: August 2017 in Japan).

2015 – 2017 **Co-organizer** of the *International Workshop on Statistical Modeling* (Groningen: July 4-8, 2017).

2009 – 2014 **Co-organizer** of four conferences and workshops in Groningen and Tübingen (e.g., 30th TABU Dag international conference, June 11-12, 2009, 175 participants).

2005 – 2012 **Initiator and manager** of the *Examentraining VWO* of the University of Groningen (http://www.examentrainingvo.nl). UOCG Market BV / UG

> *Since 2010, the project which prepared High School students for their final exams, had a yearly staff of about 50 teachers, a yearly budget of about € 200,000, and a yearly profit of approximately € 60,000.*

Outreach

Since 2013, my research has been covered in **over 40 Dutch and international (online and printed) newspaper articles**, **radio and television interviews**. Some notable examples are listed below. The complete list can be found at http://www.martijnwieling.nl/media.

- "Why are we saying "uh" less and "um" more?", *BBC Magazine*, February 8, 2015, http://www.bbc.com/news/magazine-31158167
- "Geheimen van de Engelse uitspraak" [Secrets of the English pronunciation], *de Volkskrant*, May 9, 2015, http://www.volkskrant.nl/wetenschap/geheimen-van-de-engelse-uitspraak~a4008448
- "To um or to er? Studies probe how brains fill the speech-thought gap", *The Times*, October 6, 2014, http://www.thetimes.co.uk/tto/news/uk/article4227955.ece.

Key publications (downloadable from http://www.martijnwieling.nl/publications)

- Wieling, M., & Tiede, M. (forthcoming: 2017). Quantitative identification of dialect-specific articulatory settings. *Journal of the Acoustical Society of America.*
  In this paper, we show that two distinct Dutch dialects differ in their articulatory settings obtained during pauses in speech.
- Wieling, M., Tomaschek, F, Arnold, D, Tiede, M., Bröker, F, Thiele, S., Wood, S., & Baayen, R.H. (2016). Investigating dialectal differences using articulography. *Journal of Phonetics*, 59, 122-143.
  In this paper we show that two distinct Dutch dialects show a characteristic difference in their tongue position during speech. This is the first time a study has quantitatively shown the presence of such a difference at the dialect level. Furthermore, the study stands out for its large sample size (34 speakers), unique in the field of articulography.
- Wieling, M., Grieve, J., Bouma, G., Fruehwald, J., Coleman, J., & Liberman, M. (2016). Variation and change in the use of hesitation markers in Germanic languages. *Language Dynamics and Change*, 6(2), 199-234.
  In this quantitative linguistics study we show that 'um' as a hesitation marker is starting to replace 'uh' in various different languages (English, Dutch, German, Norwegian, Danish, Faroese), with women and younger people leading the change. We hypothesize this is caused by the influence of English (with more frequent 'um'), and 'um' being more polite, as the mouth is closed.
- Wieling, M., & Nerbonne, J. (2015). Advances in dialectometry. *Annual Review of Linguistics*, 1, 243-264.
  In this paper (by invitation) we provide a thorough review of how the field of dialectometry has developed in the past decade.
- Wieling, M., Montemagni, S., Nerbonne, J., & Baayen, R.H. (2014). Lexical differences between Tuscan dialects and standard Italian: Accounting for geographic and socio-demographic variation using generalized additive mixed modeling. *Language*, 90(3), 669-692.
  In this paper we effectively merge dialectometry and sociolinguistics by investigating determinants of Tuscan dialect variation, simultaneously including both geography and social factors.