

# CURRICULUM VITAE

## PERSONAL RECORD

Name Jelmer Wijtze Poelstra  
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## ACADEMIC POSITIONS & EDUCATION

- 2017 - now **Duke University, Durham, NC, US: post-doc on speciation genomics in mouse lemurs**
- 2017-09-01 – now. Advisor: Dr. Anne Yoder.
- 2016 - 2017 **UNC Chapel Hill, NC, US: post-doc on demographics of speciation in cichlids**
- 2016-09-11 – 2017-08-31. Advisor: Dr. Christopher Martin.
- 2014 - 2016 **Uppsala University, Sweden: post-doc on speciation genomics in crows**
- 2014-01-01 – 2016-08-01. Advisor: Dr. Jochen Wolf.
- 2009 - 2013 **Uppsala University, Sweden: PhD programme in Evolutionary Genetics**
- PhD Thesis: "*The Genetics of Speciation and Colouration in Carrion and Hooded Crows*". Available at: <http://uu.diva-portal.org/smash/record.jsf?pid=diva2%3A656450&dsid=1700>.
  - Started 2009-09-01, defended thesis on 2013-11-29. Advisors: Dr. Jochen Wolf and Prof. Hans Ellegren.
- 2007 - 2009 **University of Groningen, The Netherlands: MSc. in Evolutionary Biology**
- *Cum laude* MSc. degree in "Top Programme Evolutionary Biology".
  - First MSc. research project: "*Song differentiation as a reproductive barrier: playback experiments in two subspecies of the grey-breasted woodwren, Henicorhina leucophrys*." Supervised by Dr Hans Slabbekoorn (University of Leiden) and Prof. Jan Komdeur (University of Groningen).
  - Second MSc. research project: "*Divergence in isolation? Population genetics of speciation in the chestnut-bellied monarch, Monarcha castaneiventris*." Supervised by Dr. Albert Uy (Syracuse University, US).
- 2003 - 2007 **University of Groningen, The Netherlands: BSc. in Biology**

## PEER-REVIEWED PUBLICATIONS

Vijay N, Bossu CM, **Poelstra JW**, Weissensteiner M, Suh A, Kryukov A, Wolf JBW. Evolution of heterogeneous genome differentiation across multiple contact zones in a crow species complex. *Nature Communications* 7: 13195, 2016.

Uy JAC, Cooper EA, Cutie S, Concannon MR, **Poelstra JW**, Moyle RG, Filardi CE. Mutations in different pigmentation genes are associated with parallel melanism in island flycatchers. *Proc. R. Soc. B* 283 (1843): 20160731, 2016. <http://dx.doi.org/10.1098/rspb.2016.0731>.

Halfwerk W, Dingle C, Brinkhuizen DM, **Poelstra JW**, Komdeur J, Slabberkoorn HW. Sharp acoustic boundaries across an altitudinal avian hybrid zone despite asymmetric introgression. *Journal of Evolutionary Biology* 29(7): 1356-1367, 2016.

**Poelstra JW**, Vijay N, Hoepfner MP, Wolf JBW. Transcriptomics of colour patterning and coloration shifts in crows. *Molecular Ecology* 24: 4617-4628, 2015.

**Poelstra JW\***, Vijay N\*, Bossu CM\*, Lantz H, Ryll B, Müller I, Baglione V, Unneberg P, Wikelski M, Grabherr MG, Wolf JBW. The genomic landscape underlying phenotypic integrity in the face of gene flow in crows. *Science* 344: 1410-1414, 2014. [\* shared first authorship]

Weissensteiner MH, **Poelstra JW**, Wolf JBW. Low-budget ready-to-fly unmanned aerial vehicles: an effective tool for evaluating the nesting status of canopy-breeding bird species. *Journal of Avian Biology* 46: 425-430, 2014.

**Poelstra JW**, Ellegren H, Wolf JBW. An extensive candidate gene approach to speciation: diversity, divergence and linkage disequilibrium in candidate pigmentation genes across the European crow hybrid zone. *Heredity* 111: 467-473, 2013.

Vijay N\*, **Poelstra JW\***, Künstner A, Wolf JBW. Challenges and strategies in transcriptome assembly and differential gene expression quantification. A comprehensive in silico assessment of RNA-seq experiments. *Molecular Ecology* 22: 620-634, 2013. [\* shared first authorship]

Dingle C, **Poelstra JW**, Brinkhuizen DM, Halfwerk W, Slabberkoorn HW. Asymmetric response patterns to subspecies-specific song differences in allopatry and parapatry in the gray-breasted wood-wren. *Evolution* 64: 3537-3548, 2010.

## SELECTED OTHER PUBLICATIONS

Richards E, Comeault A, **Poelstra JW**. Digest: Sticklebacks do not just go with the flow: Genetic differentiation between lake and stream populations due to more than just geographic distance. *Evolution* 71: 495-496, 2017.

**Poelstra JW**. Hybridization and speciation: the case of the Italian sparrow. *Dutch Birding* 37: 249-253, 2015.

**Poelstra JW**. Speciation in shades of grey: the great grey shrike complex. *Dutch Birding* 32: 259-264, 2010.

## SELECTED TALKS

- 2015/03      University of Helsinki, Helsinki, Finland  
                  “*Speciation genetics in crows*”  
                  Invited talk at symposium “The use of genomic tools in ecology and evolution”.
- 2013/07      SMBE (Society for Molecular Biology and Evolution) Conference, Chicago, US  
                  “*Genomic and gene expression divergence across the carrion and hooded crow hybrid zone*”  
                  [Awarded 16,000 SEK travel grant by EBC graduate school.]
- 2011/03      Netherlands Ornithological Union Symposium, Leiden, Netherlands  
                  “*Carrion and hooded crows: hybridization, colour variation, and genomics*”  
                  Invited talk.
- 2009/01      EGI (Edward Grey Institute of Field Ornithology) Conference, Oxford, UK  
                  “*Divergence with gene flow in monarch flycatchers*” - Awarded prize for 2<sup>nd</sup> best talk.  
                  [Awarded €100 travel grant by Groninger Universiteitsfonds.]

2008/01 EGI (Edward Grey Institute of Field Ornithology) Conference, Oxford, UK  
“Asymmetric response patterns to subspecies-specific song in grey-breasted wood-wrens”  
[Awarded €300 travel grant by Groninger Universiteitsfonds.]

## SELECTED POSTER PRESENTATIONS

2015/08 ESEB Conference, Lausanne, Switzerland  
“Genomic differentiation across parallel contact zones in crows”

2013/07 AGA (American Genetic Association) Conference, Cornell University, Ithaca, US  
“Genomic and gene expression divergence across the carrion and hooded crow hybrid zone”  
[Awarded \$150 travel grant by the AGA.]

2012/07 SMOBE (Society for Molecular Biology and Evolution) Conference, Dublin, Ireland  
“Gene expression patterns in two crow taxa from a common garden RNA-seq experiment”  
[Awarded 15,000 SEK travel grant by Anna Maria Lundin Foundation, Smålands Nation.]

2010/12 FroSpects Speciation Conference, IIASA, Conference Center, Vienna, Austria  
“A candidate gene approach to colouration genetics in crows”  
[Awarded 6,000 SEK travel grant by the EBC Graduate School, Uppsala University.]

## SELECTED WORKSHOP ATTENDANCE

2012/07 Summer Institute in Statistical Genetics, Seattle, WA, US  
[Awarded 22,000 SEK travel grant by the EBC Graduate School, Uppsala University.]

2011/01 Workshop on Comparative Genomics, Český Krumlov, Czech Republic  
[Awarded 40,000 SEK travel grant by Anna Maria Lundin Foundation, Smålands Nation.]

2010/07 Workshop on Molecular Evolution, Wood’s Hole, MA, US  
[Awarded 30,000 SEK travel grant by the EBC Graduate School.]

2010/01 ITN Genetics and Genomics of Speciation workshop, University of Sheffield, UK

2009/04 ITN Theory of Speciation workshop, University of Groningen, the Netherlands