

CV ELISABETH JONAS

Higher education degree

Studies of Agriculture Science (1999-2003): Diploma degree, official title: *Diplom agrar ingénieur* (Dipl. Ing. Agr.), 2003, Rheinische-Friedrich-Wilhelms University Bonn, Germany

Academic degrees

Docent (Associate Professor) in Quantitative Genetics (2016), Swedish University of Agricultural Sciences, Uppsala, Sweden, Topic ‘Can we transfer research in molecular and quantitative genetics into applied breeding programs to improve selection in the future?’
Doctor of Agriculture (2007), Department of Animal Breeding and Husbandry, University of Bonn, Germany; Thesis: “Detection of the genetic causes for the heritable inverted teat defect in pigs” [German]; supervisor Prof. K. Schellander

Academic positions

March 2012-March 2014: Postdoctoral Fellow at the Department of Animal Breeding and Genetics, Swedish University of Agricultural Sciences, Uppsala, Sweden
July 2010 - March 2012: Research Fellow, University of Sydney, Australia
July 2010 - June 2011: 0.5 appointment as Lecturer (Animal Genetics), University of Sydney, Australia
Oct 2007 - Sept 2008 and Jan 2009 - June 2010: Postdoctoral Fellow, University of Sydney, Australia
2006 to 2007 and Oct 2008 - Dec 2008: Assistant scientific (Postdoc), Institute of Animal Science, Department of Animal Genetics, University of Bonn, Germany

Present position

Since March 2014: Research Fellow at the Department of Animal Breeding and Genetics, Swedish University of Agricultural Sciences, Uppsala, Sweden;

Research project:

2012-2016/ 2016-2019: MISTRA Biotech project on sustainable Swedish agriculture (genomic selection strategies in CP2)

2014-2016: FORMAS: Oxytocin and maternal behaviour in pigs: Identification of candidate genes, design of experiment in lab and further genotyping

2016/2017: Svensk Fåravelsförbundet: Suggestion of a selection index;

2016/2017: Carl-Tryggers: Identification of major genes for leg conformation to improve piglet survival and welfare; representation in Focus group at the department (research area sheep)

2017-2019: FORMAS: Improved leg health in sows

Supervisor

Supervisor/ co-supervision of BAnVetBioSc Hons students, University of Sydney, 2010-2011

Supervisor/ co-supervision of BSc student SLU Uppsala, from 2014

Supervisor/ co-supervision PhD students, SLU Uppsala, from 2014

Co-supervision MSc students, from 2015

Supervision of interns and students in the lab, Supervision of small project in selected courses

Pedagogic skills

Courses taken:

Workshop on Ethics in Supervision at SLU (March 2017); Course 'Utbildning för hållbar utveckling; workshop för kursansvariga' (May 2016); Project course project on "*How does a supervisor (team) influence the development of a scientific network?*" (SLU, Uppsala), "Supervising doctoral students" (2015) (SLU, Uppsala); Teaching in Higher Education, Two (2014) (SLU, Uppsala); "Course in Grading and Assessment" (2013) (SLU, Uppsala); "Teaching in Higher Education, basic course" (2013) (SLU, Uppsala); Training courses for teaching and eLearning at the Faculty of Veterinary Science, (2011) (University of Sydney)

Teaching:

Statistical consulting for PhD students/ assistance in analysis of GWAS/ SNP chip QC, assistance R-course for students, assistance for Writing group for Bachelor students (SLU), R-course for students, writing group for Bachelor students; lectures/computer exercises (BSc, MSc and PhD level) in genetics/ data analysis, sheep breeding and tropical livestock production; guest lecture international masters course and graduate school, lectures in 3 modules on MSc program at University of Rwanda; course organisation graduate school (EGS-ABG), examiner of BSc and MSc thesis; evaluation committee licentiate; Lectures / practical exercises for different modules in Animal Science and Animal genetics and statistical consulting for students of different levels at the University of Sydney/Bonn

Research relevant courses

Leadership course "SLU future academic leaders" at SLU (2016); Gene2Farm Winter School 2015 "Genomic data analysis... and beyond!" in November 2015; Training course "Sequence data analysis training school, SDAC" in Wageningen, Netherlands (Scholarship by COST action) (2012); Learning Solutions session "Cross Cultural Communication Skills", Staff and Student Equal Opportunity Unit: "Career Development for academic women" (2011); Participation at the EBI Bioinformatics Workshops in Sydney (2010); Learning Solutions "T3359 - Working with Chemicals" (2010); Faculty internal workshops 'R and ASREML-R', 'GLM' and 'ASREML' (2009); Participation Armidale Animal Breeding Summer course: Whole genome association and selection methods; Seminar 'Logistic regression modelling' (2008); Workshop "Project Management" and "Scientific phrasing", IQU centre in Bonn, Germany (2007); Workshop „Statistical methods in quantitative genetics and animal breeding“ of the German GfT (2006)

Contribution to grant application

Co-applicant part projects MistraBiotech II: Subprojects Genomic selection in oats; Application of genetically modified farm animals in breeding programs (MISTRA); Co-applicant Formas Welfare call: God benhälsa hos suggor - bättre fenotyper för genetisk och genomisk selection (3.98 Mio SEK over 4 years); Fåravelsbörbundet: Beräkning av totalindex för den svenska fåraveln (500 000 SEK over 2 years); Applicant Carl-Tryggers stiftelse: Identification of major genes for leg conformation to improve piglet survival and welfare (222 000 SEK); Co-applicant Fåravelsbörbundet: Beräkning av totalindex för den svenska fåraveln (500 000 SEK over 2 years); Co-application for Formas *Animal Welfare and Animal Welfare-enhancing Measures* (code 2013-312); Application bequest: Genome-wide association study for NCL in an equine cross bred population [Dorothy Minchin Bequest, 2011] (3,000 AUD); Contribution study design and grant application: Investigation of transcriptomal differences using reproductive tissues of boars with good and bad fertility [Förderverein Biotechnologieforschung der Deutschen Schweineproduktion e.V. (FBF), 2009-2011 (Schellander, Knorr)]; Contribution study design and project outline: Analysis of water-holding capacity in pork. [DFG, 2009-2012 (Schellander, Ponsuksili)]

Travel grants

Scholarship for COST action course in Wageningen (1000€); Faculty of Veterinary Science; Postdoctoral Fellow and New Academic Staff Travel Funds: Travel to Plant and Animal Genome conference (3,500 AUD); The TJ Robinson Travelling Fellowship – 2010: Travel to 9th World Congress on Genetics applied to Livestock Production in Leipzig, Germany (3,960 AUD); Faculty of Veterinary Science Post-Doctoral and New Academic Travel Funds: Travel to XXXI Conference of the International Society for Animal Genetics in Amsterdam, The Netherlands and International Congress of Genetics in Berlin, Germany (2,800 AUD); Bursary ISAG2008: Travel to XXXI Conference of the International Society for Animal Genetics in Amsterdam, The Netherlands (1,900 AUD)

Reviewer of articles

African Journal of Agricultural Research, Agronomy, Animal Genetics, Animal Production Science, Animal Reproduction Science, BMC Genetics, BMC Genomics, G3, Gene, Genetics, Genetics Research International, Heredity, International Journal of Biological Science, Journal of Dairy Science, Journal of Reproduction Sciences, Livestock Science, Pakistan veterinary journal, PlosOne, Small ruminant research, Review 2-3 Artikel for “Conference of the Association for the Advancement of Animal Breeding and Genetics” 2011 and 2013

Mentorship/ Collaborations of Postdoctoral students in the research

Guidance during research stay for project ‘Analysis of population structure in 10 Pakistani sheep breeds’ - S. Ahmed (PhD student, Pakistan) 2016; ‘Genome-wide association study to detect QTL for twinning rate in Baluchi sheep’ - M. Gholizadeh (Doctoral student) 2012; Assistance during research stay for a project on the analysis of data from the ovine 50kb SNP array in an experimental sheep population - E. T. Margawati (Professor) 2011, Guidance

during scholarship project on the analysis of the association between Leptin gene and its receptor with leptin blood levels in sheep - L. Li (Professor) 2009/ 2010, Assistance and mentorship during different phases of research project - C. Grosse-Brinkhaus (Dipl-Ing Agr/ PhD) 2006-2010 ; Guidance during research project and supervision of practical work including analysis of results - S. Yammuen-art (PhD) 2005-2008

Communication

DiamondCutters Workshop for female scientists (6 meetings each 2 days); Part of the communication group of the Mistra biotech project (from 2012); Participation in cross-disciplinary discussion group within the Mistra biotech project (publication); Organisation of section meetings, study days and journal clubs at the section of Quantitative Genetics (between 2013 and 2015); Participation in seminar-group at the Department of Animal Breeding and Genetics (2014-2017); Member of the focus group at the Department of Animal Breeding and Genetics – sheep breeding (2015-2017)