



Ing. Silvie Neradilová, Ph.D.

Birth date: 08. 08. 1990

Sex: Female

Marital status: Single (just two dogs)

Work experience

2023 – present

Lecturer

Czech University of Life Sciences Prague (CZU), Faculty of Tropical AgriSciences.

Responsible for teaching courses including *Animal Breeding and Genetics*, *Animal Production in the Tropics*, *Introduction to Animal Husbandry*, and *Animal Behaviour*. Supervise Bachelor's and Master's theses and mentor students in research design, data analysis, and interpretation in animal genetics and applied animal science.

2019 – present

Research Facility Manager

Common Eland and Guanaco Research Facility in Lány, CZU Prague

Responsible for management and operation of the research facility, including animal breeding management, herd records, culling decisions, and maintenance of small-scale farm equipment. Actively involved in multidisciplinary research projects focusing on genetics, behaviour, meat quality, immunocastration, parasitology, and endocrine profiling. Coordinate sample collection and contribute to experimental design and data interpretation.

2018 – 2019

Laboratory Technician

Laboratory of Molecular Genetics, CZU Prague

Managed laboratory equipment and supported student training. Conducted molecular analyses including DNA extraction, PCR amplification, gel electrophoresis, and microsatellite genotyping. Participated in genetic data processing and quality control.



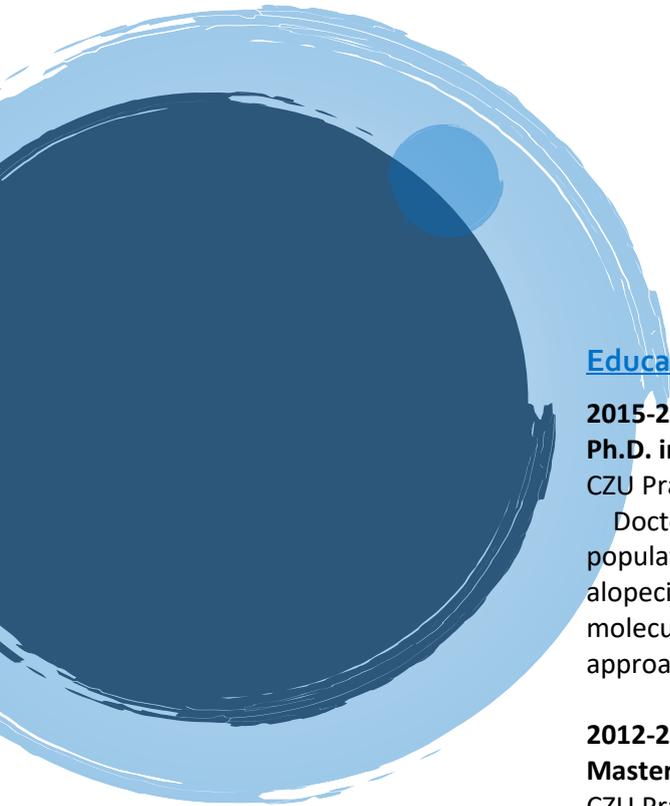
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Education

2015-2022

Ph.D. in Tropical Agrobiolgy and Bioresource Management

CZU Prague, Faculty of Tropical AgriSciences

Doctoral research focused on population genetics of small animal populations and identification of candidate genes associated with alopecia in a model dog breed. Training included population genomics, molecular genetics, SNP data analysis, and advanced statistical approaches.

2012-2015

Master of Science (MSc) in Reproduction Biotechnologies

CZU Prague, Faculty of Agrobiolgy, Food and Natural Resources

Graduate training in animal breeding, reproductive physiology, and assisted reproduction technologies. Qualification in in vitro fertilization procedures in animals.

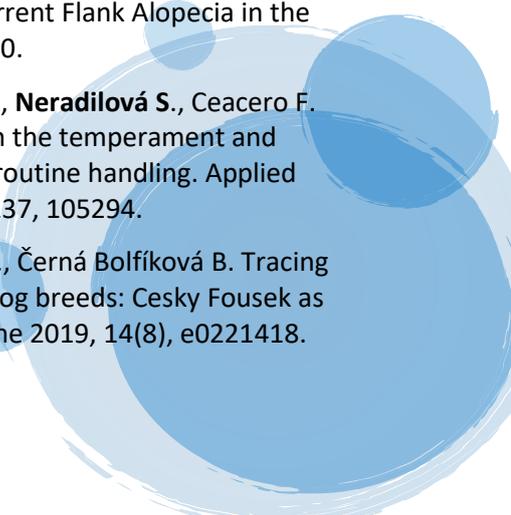
2009-2012

Bachelor of Science (BSc) in Cynology

CZU Prague, Faculty of Agrobiolgy, Food and Natural Resources

Undergraduate training focused on dog breeding, genetics, behaviour, and applied canine management.

Citations – Scientific papers

- Báčová A., Lucas Lledó J. I., Eliášová K., **Neradilová S.**, Stronen A. V., Caniglia R., Galaverni M., Fabbri E., Mattucci F., Boyko A., Hulva P., Černá Bolfíková B. Genomic Rewilding of Domestic Animals: The Role of Hybridization and Selection in Wolfdog Breeds. *Genes* 2025, 16(1), 102.
 - **Neradilová S.**, Schauer A.M., Hayward J.J., Brunner M.A.T., Bohutínská M., Jagannathan V., Connell L.B., Boyko A.R., Welle M.M., Černá Bolfíková B. Genomic and Transcriptomic Characterization of Atypical Recurrent Flank Alopecia in the Cesky Fousek. *Genes* 2022, 13, 650.
 - Musa A.S., Needham T., Kotrba R., **Neradilová S.**, Ceacero F. Influence of immunocastration on the temperament and habituation of common eland to routine handling. *Applied Animal Behaviour Science* 2021, 237, 105294.
 - **Neradilová S.**, Connell L., Hulva P., Černá Bolfíková B. Tracing genetic resurrection of pointing dog breeds: Cesky Fousek as both survivor and rescuer. *PLoS one* 2019, 14(8), e0221418.
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Additional courses/workshops

2020:

- Introduction to GWAS Workshop, one-week workshop, Freie Universität Berlin, Germany

2017:

- “Writing Biomedical Research Papers” 2-days seminar, Cornell University, NY, USA

2016:

- Internship at Cornell University (October 2016 - February 2017), processing of genotyping data; whole-genome association study of alopecia.
- Participation on 3-days workshop “Linux for Biologist”, Cornell University, NY, USA.
- Participation on a workshop “Practical Linux Examples in Bioinformatics”, Cornell University, NY, USA.

2014:

- Participation on seminar of HRM technology (high resolution melting), Institute of Molecular Genetics of Academy of Sciences Czech Republic.
- Participation on 2-days SAS Software course, CZU Prague.

The contact information for my references:

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