Mandatory Elements

## Publications

**Freudenthal, J. A**., Ankenbrand, M. J., Grimm, D. G., & Korte, A. (2019). GWAS-Flow: A GPU accelerated framework for efficient permutation based genome-wide association studies. *BioRxiv*, 783100.

**Freudenthal, J. A**., Pfaff, S., Terhoeven, N., Korte, A., Ankenbrand, M. J., & Foerster, F. (2019). The landscape of chloroplast genome assembly tools. B*ioRxiv*, 665869.

Togninalli, M., Seren, Ü., **Freudenthal, J. A.**, Monroe, J. G., Meng, D., Nordborg, M., ... & Grimm, D. G. (2019). AraPheno and the AraGWAS Catalog 2020: a major database update including RNA-Seq and knockout mutation data for Arabidopsis thaliana. *Nucleic acids research*.

## International Symposia

23 – 27 Mar 2017; International Conference on Selection Theory and Breeding Methodology

Technische Universität München, Freising, Germany

4 – 6 Sept 2017; IOBC-WPRS Conference, GMOs in Integrated Plant Production. Ghent, Belgium.

10 – 11 Oct 2018; 13th International GSLS Student Symposium Eureka! Würzburg, Germany Contribution: Poster “Genomic Prediction of Plant Phenotypes using Artificial Neural Networks.

13 – 15 Mar 2019; Plant 2030 Statusseminar 2019, Potsdam, Germany. Contribution: Poster “ Improving Prediction Accuracies of Genomic prediction using Artificial Neural Networks

## Group Seminar(s)

SS 2016 - WS 2019/20; AG Evolutionary Genomics, CCTB, Prof. Arthur Korte weekly, 1hr

## Jour Fixe

SS 2016 - WS 2019/20; CCTB Seminer, weekly, 1hrs

## Retreats / Summer Schools

9 -11 Feb 2017; CCTB Retrat

25 Mar – 1 Apr 2017; TUM Spring School on Selection Theory, Hersching amd Ammersee, Germany.

20 Aug – 7 Sep 2017; Modern breeding techniques of maize at the IPBO of the VIB of the University of Ghent, Belgium

5 – 7 Mar 2018; CCTB Retrat

24 - 28 Sep 2018; Deep Learning Bootcamp at the MPI CBG , Dresden Germany.

18 -20 Mar 2019; CCTB Retreat

Elective Elements

## Scientific Methods \ Transferable Skills Courses

27 - 28 Nov 2018 , Scientific Programming for Beginners. Graduate School of Life Sciences, Würzburg, Germany

29 - 30 Apr 2019; Software Carpentry. Graduate School of Life Sciences, Würzburg, Germany

30 Okt 2019; Good Scientific Pratice. Graduate School of Life Sciences, Würzburg, Germany

## Additional Activities

Mai 2017 - Okt 2017; Supervision of Bachelor thesis “Analysing the spatial allelic distribution in A. thaliana”

Oct 2018 - Apr 2019; Supervision of Bachelor thesis “Vorhersage von phänotypischen Werten mit Hilfe von Machine Learning”

Dec 2018 - May 2019; Supervision of Master thesis “Genomic prediction of quantitative traits using Machine Learning”