

People

in Bioinformatics





Biodiversity Informatics

Coordinator: Dr. Uwe Scholz



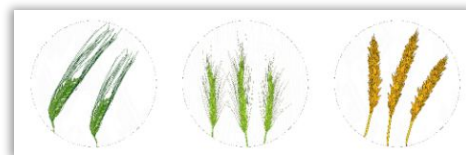
Systems Analysis and Modelling

Coordinator: Dr. Jędrzej Szymanski

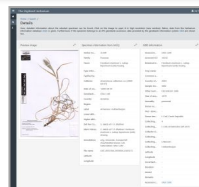


Genebank Documentation

Dr. Stephan Weise

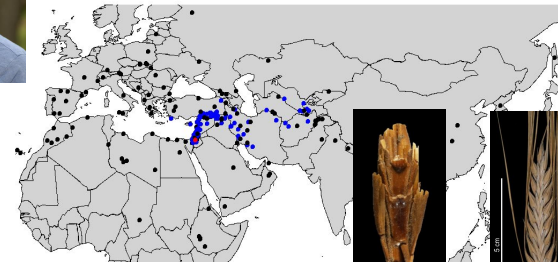


taxonomy
accessions
georeferences
genetic resources
service
phenotypic data
infrastructure
biodiversity
germplasm



Domestication Genomics

Dr. Martin Mascher



Bioinformatics and Information Technology

Dr. Uwe Scholz



Compute power:

11 SMP machines with total:

- 528 physical cores
- 13 TB RAM

4 GPU machines with total:

- 128 physical cores
- 2 TB main RAM
- 4 GPU Controller

1 Slurm Cluster

- 1 Control Node (4 Cores, 64 GB RAM)
- 1 Submission Node (virtual machine with 4 Cores, 16 GB RAM)
- 3 CPU Compute Nodes (total: 84 Cores, 768 GB RAM)
- 2 GPU Compute Nodes (total: 64 Cores, 3 TB RAM, 2 GPU)
- 10Gbit/s Network Fiber Switch

Storage capacity:

Network attached storage capacity: usable up to 760 TB

Storage and archive capacity: 1.5 PB

Network: 2 x 500 Mbit/s internet, 10 Gbit/s internal





Integrated Mechanistic Models

Dr. Mary-Ann Blätke

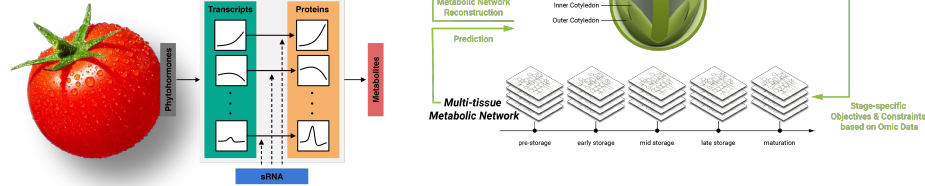
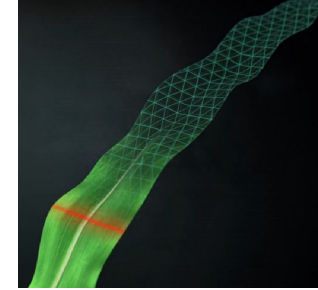
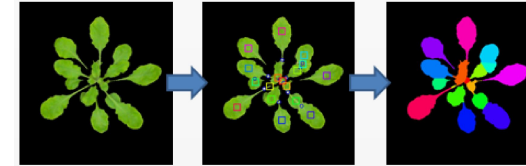


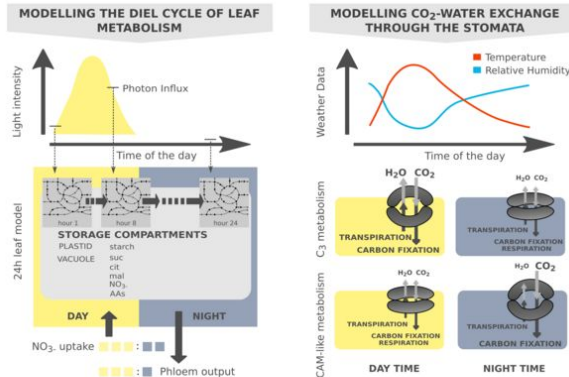
Image Analysis

Dr. Evgeny Gladilin



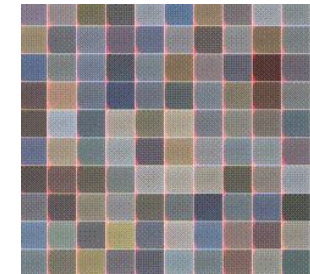
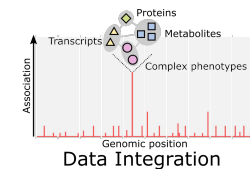
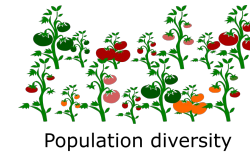
Metabolic Systems Interactions

Dr. Nadine Töpfer



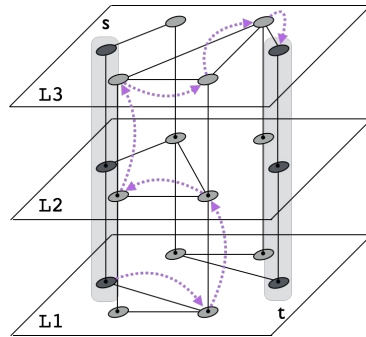
Network Analysis and Modelling

Dr. Jędrzej Szymanski

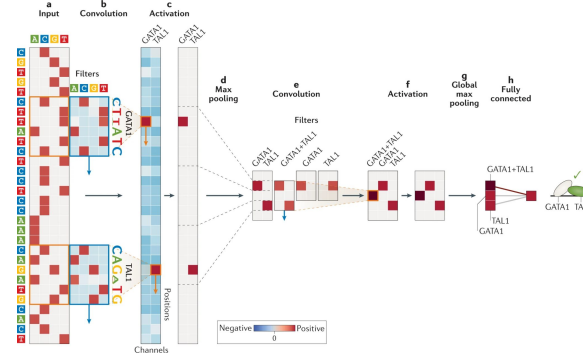


Andrzej Karpathy Blog <https://karpathy.github.io/>

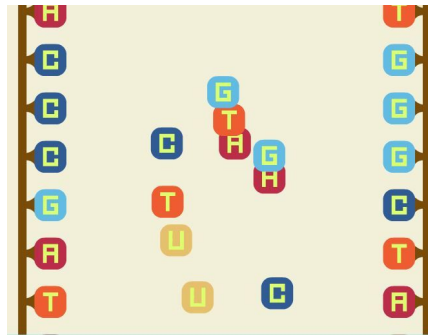
1. Hierarchical Genomic Networks



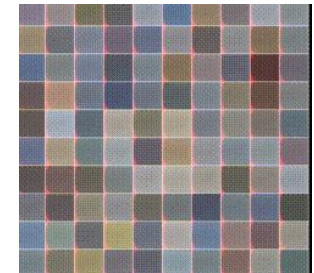
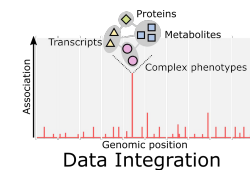
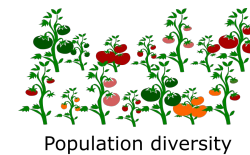
2. Artificial Intelligence for Natural Systems



3. Molecular Networks as Game Engines



Network Analysis and Modelling Dr. Jędrzej Szymanski



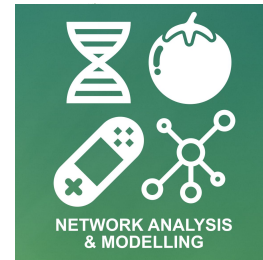
Andrej Karpathy Blog <https://karpathy.github.io/>



PhD: Dennis Psaroudakis
#Phenomics
#QuantitativeGenetics
#HeatStress
#NetworkAnalysis
#MachineLearning



MSc: Bright Enogieru Osatohanmwen
#QuantitativeGenetics
#GraphTheory
#Phenomics
#MetabolicNetworks



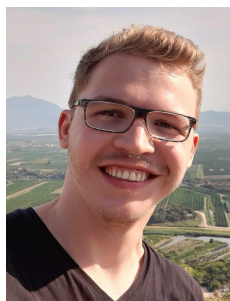
PhD: Fritz Forbang Peleke
#DeepLearning
#GenePromoters
#GeneExpression
#SequenceToPhenotype



Int: Lea Broschewitz
#GenePromoters
#TranscriptionFactors
#PlantDevelopment
#GeneRegulatoryNetwork



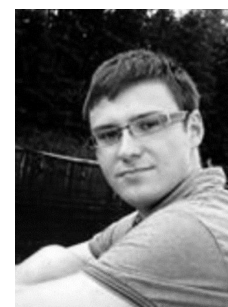
Int: Abul Khayer
#RNAsequencing
#PlantStressResponse
#Statistics



MSc: Daniel Koch
#GameDesign
#GameDev
#MetabolicModelling
#PlantDevelopment



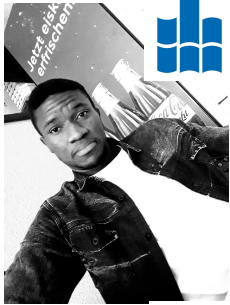
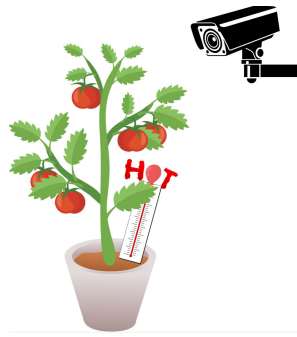
Int: Sarah Becker
#GeneAnnotation
#GeneticVariation
#GeneRegulatoryNetwork



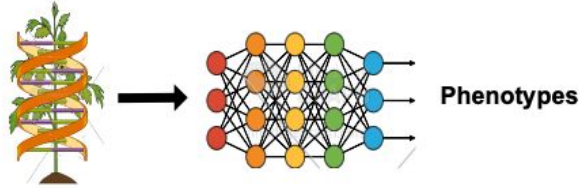
Guest: Dariusz Kruszka
#QuantitativeGenetics
#SpecializedMetabolism
#Lipidomics
#MetabolicModelling
#MachineLearning



PhD: Dennis Psaroudakis
#Phenomics
#QuantitativeGenetics
#HeatStress
#NetworkAnalysis
#MachineLearning



PhD: Fritz Forbang Peleke
#DeepLearning
#GenePromoters
#GeneExpression
#SequenceToPhenotype



MSc: Daniel Koch
#GameDesign
#GameDev
#MetabolicModelling
#PlantDevelopment

