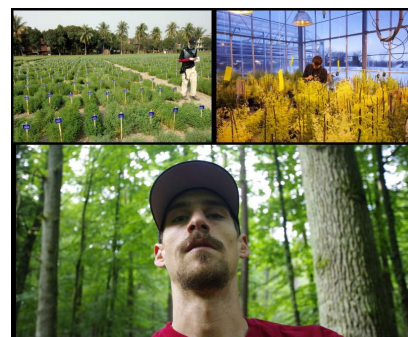


DEREK MICHAEL WRIGHT

I graduated with a **BSc in Biology** from the [University of Regina](#) in 2012, followed by a **MSc in Agrobiotechnology** from [Justus-Liebig-Universität Gießen](#) (*University of Giessen, Germany*) in 2015. I now work in the Plant Sciences department at the [University of Saskatchewan](#) and have been involved in three research projects (**AGILE**, **EVOLVES** & **P2IRC**) with **lentil** (*Lens culinaris*).

I have done extensive work with a lentil diversity panel, NAM and inter-specific RIL populations. I am very fluent in **R** and have plenty of experience with data analysis such as PCA, GWAS and QTL analysis. I have recently been working with data acquisition from UAV and seed imaging systems and can handle data wrangling and visualization of large, high-throughput data sets.



View CV as: [PDF](#) [HTML](#)

RESEARCH EXPERIENCE & EDUCATION

Current
|
2015

University of Saskatchewan

Research Assistant

Saskatoon, Saskatchewan, Canada

- Coordinate field trials
- Seed setup
- Post-harvest processing
- Data collection & analysis
- Presentations
- Collaborations

2015

Cargil Specialty Seeds and Oils

Research Assistant (Internship)

Aberdeen, Saskatchewan, Canada

- Data collection & analysis
- Pathology (blackleg)

2015
|
2013

M.Sc. in Agrobiotechnology

University of Giessen

Giessen, Hesse, Germany

- Biotechnology and Genomics
- Molecular Phytopathology
- Plant Microbe Interactions
- Plant Protection and Bioengineering
- Microbial-Food-Biotechnology
- Applied Statistics and Bioinformatics
- Risk Assessment, Bio-safety and Patent Law
- Molecular Plant Breeding
- Microbial Diagnostics
- Plant Pathogens and Symbionts
- Molecular Entomology
- Tissue Culturing and Genetic Transformation

2012
|
2007

B.Sc. Biology

University of Regina

Regina, Saskatchewan, Canada

- Limnology
- Environmental Microbiology
- Global Biogeochemistry
- Stable Isotope Ecology
- Vertebrate Animal Biology
- Advanced Plant Physiology
- Molecular Genetics
- Bacterial Genetics

SKILLS

- Photography
- Biology
- Genomics
- Data Analytics
- Data Visualization
- The R Project

Contact Info

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- derek.wright@usask.ca
- +1 306-220-0645

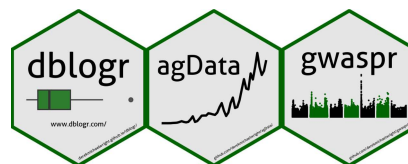
Social Media

- [@DerekMWright](#)
- github.com/derekmichaelwright

Website

www.dblogr.com/ or

derekmichaelwright.github.io/dblogr/



R PACKAGES

agData: an R package containing agricultural data sets

<https://derekmichaelwright.github.io/agData/>
`devtools::install_github("derekmichaelwright/agData")`

gwaspr: an R package for plotting GWAS results

<https://derekmichaelwright.github.io/gwaspr/>
`devtools::install_github("derekmichaelwright/gwaspr")`



PUBLICATIONS

2023	<p>Mass Spectrometry-Based Untargeted Metabolomics Reveals the Importance of Glycosylated Flavones in Patterned Lentil Seed Coats</p> <p><i>Journal of Agricultural and Food Chemistry</i>. 71(7): 3541–3549</p> <p>Ellessawy F, Wright D, <i>et al.</i></p>	data collection
2022	<p>Focusing the GWAS <i>Lens</i> on days to flower using latent variable phenotypes derived from global multi-environment trials</p> <p><i>The Plant Genome</i>. 16(1): e20269.</p> <p>Neupane S, Wright D, <i>et al.</i></p>	data collection data analysis data visualization manuscript writing
2021	<p>Strategic Identification of New Genetic Diversity to Expand Lentil (<i>Lens culinaris</i> Medik.) Production (Using Nepal as an Example)</p> <p><i>Agronomy</i>. 11(10): 1933.</p> <p>Neupane S, Dhakal R, Wright D, <i>et al.</i></p>	data analysis data visualization
2020	<p>Genomic selection for lentil breeding: Empirical evidence</p> <p><i>The Plant Genome</i>. 13(1):e20002.</p> <p>Haile TA, Heidecker T, Wright D, <i>et al.</i></p>	data visualization
2020	<p>Understanding photothermal interactions can help expand production range and increase genetic diversity of lentil (<i>Lens culinaris</i> Medik.)</p> <p><i>Plants, People, Planet</i>. 3(2): 171-181.</p> <p>Wright D, <i>et al.</i></p>	data collection data analysis data visualization manuscript writing
2015	<p>Influence of heterozygosity on nitrogen use efficiency in hybrid and purebred lines of <i>Brassica napus</i> (L.)</p> <p>MSc Thesis</p> <p>Wright D</p>	



UNPUBLISHED WORK

<p>Dissecting lentil crop growth across multi-environment trials using unoccupied aerial vehicles and genome-wide association studies</p>	data analysis data visualization manuscript writing
<p>GWAS of predicted protein and amino acid content in lentil using near-infrared reflectance spectroscopy</p>	data analysis data visualization
<p>Investigating seed size, shape, color, and patterning in a lentil diversity panel and inter-specific RIL populations</p>	data analysis data visualization

PHOTOGRAPHY

Saskatchewan Field Trials



Bangladesh Field Trials



Lentil Seed Diversity

