

Dr. Deniz Akdemir

Senior Clinical Data Scientist - Statistical Genomics Consultant

Core Skills

- **Statistical Genomics:** Genomic selection, multi-trait methodologies, genomic prediction, GWAS, models for epistasis and genotype by environment interactions, optimization of plant and animal breeding programs.
- **Statistics:** Multivariate analysis, high-dimensional data modeling, Bayesian methods, machine learning, deep learning, data science, biostatistics.
- **Statistical Computation:** Proficient in R, SAS, Python, and C++ for statistical programming and analysis.
- **Software Development:** Development of research and commercial grade software.
- **Management and administration:** Strategic planning, project management, team leadership, grant/patent writing, budgeting, accounting.

Career Summary

- **Senior Clinical Data Scientist, National Marrow Donor Program, Minneapolis, USA (2023 - Current):** Engaged in statistical and machine learning analysis of stem cell transplant data, focusing on research into donor optimization. Applied for grants and submitted manuscripts to peer-reviewed journals. Wrote patent applications.
- **Clinical Data Scientist, National Marrow Donor Program, Minneapolis, USA (2021 - 2023):** Engaged in statistical and machine learning analysis of stem cell transplant data, focusing on research into donor optimization.
- **Postdoctoral Research Associate, School of Agriculture and Food Science, University College Dublin, Dublin, Ireland (2019 - 2021):** Conducted research on methods for combining heterogeneous genomic and phenotypic datasets and prepared statistical software for data analysis.
- **Statistical Consultant, Cornell Statistical Consulting Unit, Cornell University, Ithaca, NY, USA (2017 - 2019):** Provided statistical consulting services for researchers at Cornell University, including the preparation and presentation of statistics workshops.
- **Postdoctoral Research Associate, Department of Plant Breeding and Genetics, Cornell University, Ithaca, NY, USA (2011 - 2017):** Focused on research developing new methodologies in genomic selection and prediction, mixed models, and machine learning, advising graduate students and preparing statistical software.
- **Visiting Assistant Professor, Department of Statistics and Actuarial Science, University of Central Florida, Orlando, FL, USA (2010 - 2011):** Responsibilities included teaching Data Mining Methodology, Theoretical Statistics, Applied Time Series Analysis, and Nonparametric Statistics.
- **Visiting Assistant Professor, Department of Mathematics and Statistics, Ohio Northern University, Ada, OH, USA (2009 - 2010):** Taught Statistics for Professionals,

Statistics for Engineers, and Statistical Computing, catering to various undergraduate levels.

Workshops and Training Sessions

- **Genomic Assisted Breeding Workshops:** Conducted workshops in the USA, Ireland, Spain, and Belgium, educating the agricultural community on genomic technologies.
- **Public Speaking:** Presented at various international conferences including EFI conference in Geneva and ASHI Annual Meeting in San Antonio.

Publications

- Akdemir, D., Knox, R., & Isidro y Sanchez, J. (2020). Combining partially overlapping multi-omics data in databases using relationship matrices. *Frontiers in Plant Science*, 11, 947. <https://doi.org/10.3389/fpls.2020.00947>
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Education

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- **B.A. in Business Administration**, Middle East Technical University, Ankara, Turkey, 1999.

Professional References

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 - **Affiliation:** Director, Immunobiology & Bioinformatics Research, NMDP, Minneapolis, Minnesota, United States
 - **Relationship:** Supervisor at the National Marrow Donor Program
 - **Contact:** ybolon@nmdp.org
- **Dr. Julio Isidro-Sanchez**
 - **Affiliation:** Associate Professor: Centro de Biotecnología y Genómica de Plantas, Universidad Politécnica de Madrid, Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria, Campus de Montegancedo - UPM, 28223-Pozuelo de Alarcón, Madrid, Spain
 - **Relationship:** Expert in plant breeding and genetics, collaborator on various projects
 - **Contact:** j.isidro@upm.es
- **Dr. Jhonathan Pedroso**
 - **Affiliation:** Research Scientist at Corteva Agriscience, Corteva, Johnston, Iowa, USA
 - **Relationship:** Industry partner in genomic tool development, contributed to software enhancements
 - **Contact:** jhowpd@gmail.com
- **Dr. Lynn Johnson**
 - **Affiliation:** Interim Director and Statistical Consultant, Cornell Statistical Consulting

Unit, Cornell University, Ithaca, NY, USA

- **Relationship:** Coworker at the Cornell Statistical Consulting Unit
- **Contact:** lms86@cornell.edu

○ **Dr. Roberto Fritsche Neto**

- **Affiliation:** Assistant Professor, Department of Plant, Environmental Management & Soil Sciences, LSU
- **Relationship:** Collaborator on various projects
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