

Mercy Appiah

Curriculum Vitae

Academic Career

Since 2024	Post-Doctoral Researcher , TROPAGS, Georg-August- University Göttingen
2018 - 2023	Ph.D. Agricultural Sciences , TROPAGS, Georg-August-University Göttingen (<i>summa cum laude</i>)
2016-2017	Research assistant, TROPAGS Georg-August-University of Göttingen
10/2015 – 12/2017	M.Sc. Sustainable International Agriculture , Georg-August- University Göttingen
09/2011 – 09/2015	B.Sc. Agriculture , University of Applied Sciences Weihenstephan-Triesdorf

PUBLICATIONS

Dewi, E. S., Abdulai, I., Bracho-Mujica, G., **Appiah, M.**, & Rötter, R. P. (2023). Agronomic and Physiological Traits Response of Three Tropical Sorghum (*Sorghum bicolor* L.) Cultivars to Drought and Salinity. *Agronomy*, 13(11), 2788.

Appiah M, Abdulai I, Schulman AH, Moshelion M, Dewi ES, Daszkowska-Golec A, Bracho-Mujica G, Rötter RP (2023) Drought response of water-conserving and non-conserving spring barley cultivars. *Front. Plant Sci.* 10.3389/fpls.2023.1247853

Appiah, M., Bracho-Mujica, G., Ferreira, N. C., Schulman, A. H., and Rötter, R. P., (2023). Projected impacts of sowing date and cultivar choice on the timing of heat and drought stress in spring barley grown along a European transect. *Field Crops Research* 291, 108768.

Rötter, R. P., **Appiah, M.**, Fichtler, E., Kersebaum, K. C., Trnka, M., and Hoffmann, M. P., (2018). Linking modelling and experimentation to better capture crop impacts of agroclimatic extremes—A review. *Field crops research*, 221, 142-156.

CONFERENCE CONTRIBUTIONS

Appiah, M., Abdulai, I., Dewi, E.S., Daszkowska-Golec, A., Bracho-Mujica, G., Schulman, A., Moshelion, M. and Rötter, R.P.(2023). Using high-throughput functional phenotyping to increase understanding of drought response behavior in barley. *Oral presentation at CBB7. 7-9 Nov 2023, Werningerode.*

Appiah, M., Abdulai, I., Dewi, E.S., Daszkowska-Golec, A., Bracho-Mujica, G., Schulman, A., Moshelion, M. and Rötter, R.P.(2023). Generating high-throughput functional phenotyping data to support crop modelling in designing drought resilient crop cultivars. *Oral presentation at GPW Pflanzenbau Tagung Göttingen. 4-6 Oct 2023 Göttingen.*

Köster, M., **Appiah M.**, Bracho-Mujica, G., Janssen, L., Semenov, M.A.; Rötter, RP; Effects of climate change and autonomous adaptation on spring barley production across 18 sites in Europe. *Oral presentation at AgMIP 9. 26-30 June, Columbia University, New York, NY.*

Appiah, M., Abdulai, I., Dewi, E.S., Daszkowska-Golec, A., Bracho-Mujica, G., Schulman, A., Moshelion, M. and Rötter, R.P.,(2023). Drought response behavior of risk-taking and conserving spring barley cultivars. In *EGU General Assembly Conference Abstracts* (No. EGU23-7999). *Oral presentation at EGU General Assembly Vienna, 23-28 April 2023*. DOI: 10.5194/egusphere-egu23-7999.

Appiah, M., Bracho-Mujica, G., Svane, S., Styczen, M., Kesrebaum, K.C. and Rötter, R.P., (2022). The impact of high quality field data on crop model calibration. In *EGU General Assembly Conference Abstracts* (pp. EGU22-2783). *Short presentation at EGU General Assembly Vienna 23-27 May, 2022 in Vienna, Austria and Online*. DOI: 10.5194/egusphere-egu22-2783.

Appiah, M., Bracho Mujica, G., Svane, S., Styczen, M., Kersebaum, C., Rötter, R. P.,(2022). Effects of field data quality on crop model calibration. *Poster presentation at XVII. Congress of the European Society for Agronomy, Potsdam (Germany), 29 August – 2 September 2022*

Appiah, M., Bracho Mujica, G., Svane, S., Styczen, M., Rötter, R. P.,The impact and importance of high quality field data for crop model calibration. *Poster presentation at the PBE 2021, 28 Jun - 1 Jul 2021 online conference*.

Rötter, R.P., Koch, M., Moshelion, M., **Appiah, M.,** Hau, S.V., Brighenti, T., Iguarta, E., Schulman, A. Modelling yield and water use of isohydric and anisohydric barley cultivars at a Nordic and a Mediterranean site in Europe. *Poster Presentation at Plant Biology Europe 2018, 18-21 July 2018, Copenhagen, Denmark*.

AWARDS

Outstanding Student and PhD candidate Presentation (OSPP) Award

Issued by the European Geosciences Union in Apr 2023

The EGU presented the OSPP-Award to Mercy Appiah for the outstanding presentation entitled "The impact of high quality field data on crop model calibration" presented at the EGU General Assembly, Vienna, Austria, 23-27 May 2022.

<https://www.egu.eu/awards-medals/ospp-award/2022/mercy-appiah/>