Dr Diana Hermith-Ramirez

Clinical Research Data Manager | Griffith Biostatistics Unit | Griffith Health | **Griffith University**

Address

N78 1.11
Nathan Campus

Email

d.hermith-ramirez@griffith.edu.au

Web

ORCID: orcid.org/0000-0003-0710-5262

Company: www.griffith.edu.au/menzies-health-institute-queensland/our-research/biostatistics-bioinformatics-and-epidemiology

Company: child-health-research.centre.uq.edu.au

Google Scholar: scholar.google.com.au/citations?hl=en&user=542czVoAAAAJ

Overview

Dr. Diana Hermith-Ramirez is a mid-career molecular biologist with a PhD in Computational Biology and expertise in bioinformatics, data analysis, biostatistics, health informatics, and data management. Her research focuses on computational approaches and biostatistics for analyzing biological and clinical data, particularly in epidemiology and clinical research. With a patent in nanochemistry, she is dedicated to positively impacting health and medical research. Highly motivated and passionate, Dr. Hermith-Ramirez utilizes computational biology, biostatistics, and data management to make a positive impact on health and medical research. She excels in attention to detail, works independently, and manages multiple projects simultaneously.

Diana was appointed as Griffith University's Research Fellow and Data Manager with the Centre for Applied Health Economics (CAHE) in November 2022 and with the Menzies Health Institute Queensland (MHIQ). Prior to joining Griffith University, Diana completed her PhD in Computational Biology at the Università degli Studi di Siena (IT) in 2016 and obtained graduate certifications in Bioinformatics and Biostatistics from the University of Queensland. She was then employed at Queensland Health as a Bioinformatician Data Analyst in 2022. Diana's applied interests include bioinformatics, computational/ systems biology, epidemiology, biostatistics, systems biology, data management, and data science.

Experience

Academic Appointments

Honorary (Industry Fellow), Centre for Child Health Research (CCHR) - University of Queensland (secondary appointment)	2023-present
Honorary (Fellow), University of Melbourne (secondary appointment)	2022-present
Clinical Research and Data Manager, Griffith Health, Griffith University (primary appointment)	2022-present
Research Collaboration, Università degli Studi di Sien, Italy	2018
Research Collaboration, Universidad Autonoma de Occidente, Colombia	2018
Lecturer, Pontificia Universidad Javeriana, Colombia	2017
Postdoctoral Research Fellow, Pontificia Universidad Javeriana, Colombia	2016-2017

Non-Academic Employment

Bioinformatician Data Analyst, Queensland Health	2022

Education

Degrees

GradCert, Biostatistics University of Queensland	2022-2023
GradCert, Bioinformatics University of Queensland	2021
PhD, Engineering and Science of Information (Computational Biology) Università degli Studi di Siena, Italy	2012-2016
MEng, Computer Science (Computational Biology) Pontificia Universidad Javeriana, Colombia	2008-2011
BSc in Biology (major in Molecular Biology) Universidad del Valle, Colombia	2005

Diploma in Science, Technology, Education, and Values The Organization of Ibero-American States for Education, Science and Culture (OEI) and the Universidad de Oviedo 2008

Languages

Can read, write, speak, understand spoken and peer review Spanish - Latin American

Can read, write, speak, understand spoken and peer review English

Publications

Davies, J., Gregory, R., Hung, J., Choy, B., Zournazi, A., Turner, D., . . . Hermith-Ramirez, D. -P. (2023). Queensland COVID-19 Vaccination (QoVAX) Safety and Efficacy Trial Pilot Study in adults aged 18 years and over [Dataset]. [Individual Participant Data]. Queensland, Australia: Metro North Hospital and Health Service. doi:10.60540/Y00EDE

Davies, J., O'Grady, K. -A., Gregory, R., Keller, J., Hung, J., Choy, B., . . . Hermith-Ramirez, D. -P. (2023). Queensland COVID-19 Vaccination (QoVAX) Safety and Efficacy Trial Program: Mixed Dose 1 and 2 Study [Dataset]. [Individual Participant Data]. Queensland, Australia: Metro North Hospital and Health Service. doi:10.60540/9HWYM8

O'Grady, K. A., Gregory, R., Hermith-Ramirez, D., Wailan, A. M., Vardon, P., Smith, K., . . . et al.. (2022). *Queensland COVID-19 vaccine (QoVAX) Pilot Study: humoral immunity in SARS-CoV-2 naïve adults*. Poster session presented at the meeting of Herston Health Precinct Symposium 2022.

Hermith-Ramirez, D. -P., Jaramillo Botero, A., & Hernandez, P. (2022). *Synthesis of functionalised gold nanoparticles and nanocompounds containing same for measuring sucrose or starch in cells*. Retrieved from https://patents.justia.com/patent/11413683

Bernini, A., Brodo, L., Degano, P., Falaschi, M., & Hermith, D. (2018). Process calculi for biological processes. *Natural Computing*, *17*(2), 345-373. doi:10.1007/s11047-018-9673-2

Rincón, C. E., Hermith, D. P., & Bautista Molina, W. (n.d.). Innovación social y su importancia en la gestión del conocimiento y la participación ciudadana. *trilogía Ciencia Tecnología Sociedad*, *10*(18), 51-61. doi:10.22430/21457778.647

Bodei, C., Brodo, L., Gori, R., Levi, F., Bernini, A., & Hermith, D. (2017). A static analysis for Brane Calculi providing global occurrence counting information. *Theoretical Computer Science*, *696*, 11-51. doi:10.1016/j.tcs.2017.07.008

Olarte, C., Chiarugi, D., Falaschi, M., & Hermith, D. (2016). A proof theoretic view of spatial and temporal dependencies in biochemical systems. *Theoretical Computer Science*, *641*, 25-42. doi:10.1016/j.tcs.2016.03.029

Chiarugi, D., Falaschi, M., Hermith, D., & Olarte, C. (2015). Verification of Spatial and Temporal Modalities in Biochemical Systems. In *Electronic Notes in Theoretical Computer Science* Vol. 316 (pp. 29-44). Munich, Germany: Elsevier BV. doi:10.1016/j.entcs.2015.06.009

Chiarugi, D., Falaschi, M., Hermith, D., Olarte, C., & Torella, L. (2015). Modelling non-Markovian dynamics in biochemical reactions. *BMC Systems Biology*, *9*(Suppl 3), S8. doi:10.1186/1752-0509-9-S3-S8

Bodei, C., Brodo, L., Gori, R., Hermith, D., & Levi, F. (2015). A Global Occurrence Counting Analysis for Brane Calculi. In M. Falaschi (Ed.), *LOPSTR 2015: Logic-Based Program Synthesis and Transformation* Vol. 9527 (pp. 179-200). Siena, Italy: Springer. doi:10.1007/978-3-319-27436-2_11

Chiarugi, D., Falaschi, M., Hermith, D., & Olarte, C. (2014). A framework for modelling spatially dependent interactions of biological systems in CCP. In F. Ortuno, & I. Rojas (Eds.), *International Work-Conference on Bioinformatics and Biomedical Engineering, IWBBIO 2014* (pp. 912-923). Granada, Spain: Copicentro Granada S L. Retrieved from https://dblp.org/db/conf/iwbbio/iwbbio2014.html

Chiarugi, D., Falaschi, M., Hermith, D., Guzman, M., & Olarte, C. (2013). Simulating signalling pathways with BioWayS. In *Electronic Notes in Theoretical Computer Science* Vol. 293 (pp. 17-34). Stockholm, Sweden: Elsevier BV. doi:10.1016/j.entcs.2013.02.016

Chiarugi, D., Falaschi, M., Hermith, D., Marangoni, R., & Olarte, C. (2013). Stochastic modelling of non Markovian Dynamics in Biochemical Reactions. In F. Ortuno, & I. Rojas (Eds.), *International Work-Conference on Bioinformatics and Biomedical Engineering, IWBBIO 2013* (pp. 537-544). Granada, Spain: Copicentro Granada S L. Retrieved from https://dblp.org/db/conf/iwbbio/iwbbio2013.html

Hermith, D., Olarte, C., Rueda, C., & Valencia, F. D. (2011). Modeling Cellular Signaling Systems: An Abstraction-Refinement Approach. In M. P. Rocha, J. M. C. Rodriguez, F. FdezRiverola, & A. Valencia (Eds.), *5th International Conference on Practical Applications of Computational Biology & Bioinformatics (PACBB 2011)* Vol. 93 (pp. 321-328). Salamanca, Spain: Springer. doi:10.1007/978-3-642-19914-1_42

Hermith-Ramirez, D. -P. (2011). *Modeling Cellular Signaling Systems: An Abstraction-Refinement Approach*. Lambert Academic Publishing. Retrieved from https://www.lap-publishing.com/