Diego Derman

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Luddy Hall, 700 N Woodlawn Ave, Bloomington, IN

Education

2020-On.	**Ph.D.**, Intelligent Systems Engineering, Indiana University, USA. **GPA: 3.912**
2013-20	**B.Sc.**, Electric Engineering, Universidad Nacional de Rosario, Argentina

Awards & Honors

2023	**Best Poster Finalist**, GISfN 2023 Conference
2024	**Young Investigator Award**, 2024 FITNG Conference (Fetal, Infant, and Toddler Neuroimaging Group)
2018	**ARFITEC Fellowship** Argentina Education Ministry & France Higher Education Ministry - Semester research and academic stay at Institut Mines-Télécom, Brest, France.

Publications

G Google Scholar

Journal Articles

J1. **Derman, D.**, Pham, D. D., Mejia, A. F. & Ferradal, S. L. Individual patterns of functional connectivity in neonates as revealed by surface-based Bayesian modeling. *Imaging Neuroscience* **3.** ISSN: 2837-6056. https://doi.org/10.1162/imag_a_00504 (Mar. 2025).

Working papers

W1. **Derman, D.** & Ferradal, S. L. Precision mapping of functional brain network trajectories during early development. *Bioarxiv*. https://biorxiv.org (June 2025).

Peer-reviewed Conference Proceedings

C1. Asadian, A., **Derman D.**, Adepoju, T., White, B. R. & Ferradal, S. L. *Anesthetic effects on functional connectivity fingerprinting in mice* in *Clinical and Translational Neurophotonics 2025* (eds Kainerstorfer, J. M., Buckley, E. M. & Srinivasan, V. J.) **13302** (SPIE, 2025), 1330205. https://doi.org/10.1117/12.3042513.

C2. **Derman D.**, Pham, D. D., Mejia, A. F. & Ferradal, S. L. *Surface-based Bayesian modeling improves individual-level functional network characterization during early brain development* in *Fetal, Infant, Toddler Neuroimaging Group (FITNG) Conference* (2024).

C3. **Derman D.**, Pham, D. D., Mejia, A. F. & Ferradal, S. L. *Early life functional connectivity maturation as revealed by surface-based Bayesian modeling* in *Greater Indiana Society for Neuroscience (GISfN) Conference* (2023).

C4. **Derman D.**, Pham, D. D., Mejia, A. F. & Ferradal, S. L. *Surface-based Bayesian modeling reveals individual patterns of functional connectivity in neonates* in *Organization for Human Brain Mapping (OHBM) Conference* (2023).

Software

Cartified	CCNA 1 (Cisco Certified Network Associate) certification in information technology and networks by Cisco.
Proficient	Python, R, Shell script, Matlab, C, multiprocessing, FSL, ConnectomeWorkbench.
Advanced	C++, Java, HDL, HTML, FreeSurfer.
Selected Libraries	multiprocessing, ciftiTools, NiBabel, OpenCV, TensorFlow, Numpy, scikit-learn, Pandas, dplyr.
Tools	LaTeX, Zotero, Inkscape (Illustrator), GIMP (Photoshop), Solidworks, Fusion360, slurm, SSH, cron, and other Unix tools.
Hardware	Embedded platforms: ARM Cortex, Atmel ATMega and ATTiny.

Presentations

Talks

T1. **Derman D.** *Surface-based Bayesian modeling improves individual-level functional network characterization during early brain development* FITNG 2024 Annual Conference (Baltimore, MD, USA). Sept. 2024.

Teaching

Indiana University

Spr 2021	Teaching Assistant, Systems, Signals, and Control (ENGR 250)
Fall 2021	Teaching Assistant, Systems, Signals, and Control (ENGR 250)
Fall 2022	Teaching Assistant, Systems, Signals, and Control (ENGR 250)
Fall 2023	Teaching Assistant, Systems, Signals, and Control (ENGR 250)
Fall 2024	Teaching Assistant, Systems, Signals, and Control (ENGR 250)

Universidad Nacional de Rosario, Engineering

2016	Assistant Instructor, Informatics I

Universidad Nacional de Rosario, Electrical Engineering

2016-2020 Assistant Instructor, Electromagnetic Field Theory

Universidad Nacional de Rosario, Architecture and Design

2020 Assistant Instructor, Physics

Universidad Nacional de Rosario, Instituto Politecnico Superior

2019 Teacher, Electronics I
2020 Teacher, Electronics II
2020 Teacher, Physics IV

Service

Service to the University and development of academic life

2019-2020 **Makerspace - Universidad Nacional de Rosario** Building and running of makerspace in Engineering School
2024-2025 **Treasurer - GPSG** Academic year 24-25 at Indiana University Graduate Student Government, including Fee Review cycle.

Last updated: June 16, 2025