PABLO GONZÁLEZ DE PRADO SALAS

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CAREER AND EDUCATION

FOQUM

• Chief data scientist	2018

IT University of Copenhagen

• Postdoc researcher	2017–18
• Postdoc researcher (Ramón Areces grant)	2015–17

Designing Complex Neural Networks: Mixed Initiative and Learning. Advisor: Sebastian Risi

Universidad Autónoma de Madrid (UAM)

• Collaborating researcher	2014–15
• PhD in Biophysics (*cum laude*; highest grade)	2010–14

Dynamics of the Formation of Rings of Protein Filaments
Advisor: Pedro Tarazona

• Master's degree in Biophysics	2009–10
• Five-year degree in Physics	2004–09

GRANTS

• Ramón Areces postdoctoral fellowship	2015–17
• FPU fellowship for PhD studies 2009, Ministerio de Educación	2010–14
• UAM scholarship for master's degrees	2009–10
• JAE Intro fellowship, Spanish National Research Council (CSIC) two months at IFISC, Mallorca	2008
• UAM Collaboration Scholarship	2008–09

PUBLICATIONS

- **BERTIN: Efficient Pre-Training of a Spanish Language Model using Perplexity Sampling**
  De la Rosa J, Ponferrada EG, Romero M, Villegas P, González de Prado Salas P, Grandury M
  Procesamiento del Lenguaje Natural 2022 (68)

- **Death and Progress: How Evolvability is Influenced by Intrinsic Mortality**
  Veenstra F, González de Prado Salas P, Bongard J, Stoy K, and Risi S
  Invited paper: Artificial Life Journal Special Issue ALIFE 2018

- **Intrinsic mortality governs evolvability**
  Veenstra F, González de Prado Salas P, Bongard J, Stoy K, and Risi S
  ALIFE 2018: The 2018 Conference on Artificial Life. 2018: 242–249

- **Collaborative interactive evolution in Minecraft**
  González de Prado Salas P, and Risi S
  Proceedings of GECCO 2018 (short paper). 2018: 127–128

- **Interactive evolution of complex behaviours through skill encapsulation**
  González de Prado Salas P, and Risi S
  Applications of Evolutionary Computation, EvoApplications 2017, proceedings. 2017 (1): 853–869

- **Collective effects of torsion in FtsZ filaments**
  González de Prado Salas P, and Tarazona P
  Physical Review E. 2016, 93 (4)

- **Modeling the interplay between protein and lipid aggregation in supported membranes**
  González de Prado Salas P, Encinar M, Alonso A, Vélez M, and Tarazona P
  Invited paper: Chemistry and Physics of Lipids, special issue: Membrane mechanochemistry: From the molecular to the cellular scale. 2015, 185: 141–152

- **Torsion and curvature of FtsZ filaments**
  Pablo González de Prado Salas et al.
  Soft Matter. 2014, 10 (12): 1977–1986

- **FtsZ protein on bilayer membranes: Effects of specific lateral bonds**
  González de Prado Salas P, Encinar M, Vélez M, and Tarazona P
  Soft Matter. 2013, 9 (26): 6072–6079

- **Torsion and curvature of FtsZ filaments**
  González de Prado Salas P, and Tarazona P
  Conference proceedings (abstract): 9th EBSA European Biophysics Congress, Lisbon. European Biophysical Journal with Biophysics Letters. 2013, 42 S. 1: S91

CONFERENCE TALKS

- Evostar 2017, Amsterdam 2017

- ΣΦ 2014, International Conference on Statistical Physics, Rhodes 2014

- XIV Congress of the Spanish Biophysical Society, Alcalá de Henares 2014

- XXV IUPAP International Conference on Statistical Physics STATPHYS25, Seoul 2013

- INC 2012—Young Researchers Meeting XV 2012

CONFERENCE POSTERS

- GECCO 2018, Kyoto   2018
- INC 2014—Young Researchers Meeting XVII   2014
- Physics Meets Biology, Oxford   2014
- INC 2013—Young Researchers Meeting XVI   2013
- EBSA 2013, 9th European Biophysics Congress, Lisbon   2013
- EBSA 2011, 8th European Biophysics Congress, Budapest   2011
- FISES 2011, XVII Spanish Statistical Mechanics Congress, Barcelona 2011

OUTREACH

- *Animals in Space*, talk for 6-year-old kids at Padre Manyanet School   2015
- Public talk for the Galileo Cultural Centre, Madrid   2014
- Public talk for the Café Scientifique, Madrid   2013
- *Noche en Blanco*, Madrid   2010
  Visionado de Estrellas (Stargazing). Co-organizer as a member of
  Antares Astronomy Club (UAM)
  In collaboration with Spanish Red Cross
- *Semana de la Ciencia*, Madrid   2006
  Observación Astronómica Nocturna (Stargazing) and Observación
  Solar con Filtro H-Alfa (Solar observation through H-Alpha filter)
- Co-organizer and instructor in stargazing sessions, talks   2006–15
  and other activities as a member of Antares Astronomy Club

TEACHING EXPERIENCE

Foqum
- Supervision of master-theses' projects   2018–22

IT University of Copenhagen
- Modern AI for Games (30%), 15 ECTS   2017–18
- Data Mining (50%), 7.5 ECTS   2017
- Procedural Content Generation in Games, 7.5 ECTS   2016–17

Universidad Autónoma de Madrid
- Deep Learning for Scientists for the master in biophysics, 15 hours   2019–21
- Physics Lab for chemists and chemical engineers, 137 hours   2010–15
- Electronics II Lab for physicists, 30 hours   2011–12

LANGUAGES

- English, Advanced Certificate in English, 2006
- French, B2-Intermediate
- Basic Japanese
- Spanish (native)

HONOURS AND OTHERS

- Team BERTIN, finalist of the Flax/JAX   2021
  community week by HuggingFace
- President of Agrupación Astronómica Antares   2005–07
  (UAM's astronomy club)
- *Excellence accreditation*, Comunidad de Madrid   2005–07