



INSTITUTO NACIONAL DE ASTROFÍSICA, ÓPTICA Y ELECTRÓNICA  
Maestría en Ciencias y Tecnologías Biomédicas



Dr. Julio César Pérez Sansalvador

**Línea de Generación y/o Aplicación del Conocimiento**

Procesamiento de imágenes y señales biomédicas

**Contacto:**

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**Main research interests:**

- Numerical solution of Partial Differential Equations (PDEs)
- Cellular Automata
- Modelling and Simulation of Biological and Physical Phenomena
- Scientific Computing
- Parallel Computing (including High-Performance Computing)

**Scientific software:**

- Principal developer of SciCell++, an open scientific software framework for the numerical solution of PDEs found in biological and physical processes. Part of the Arctic Code Vault Project by GitHub.

**Member of the following scientific organisations:**

- Society for Industrial and Applied Mathematics (SIAM) since 2018
- Sociedad Matemática Mexicana (SMM) since 2020
- Academia Mexicana de Computación (AMexComp) since 2020
- Association for Computing Machinery (ACM) since 2020



**Qualifications:**

- Sistema Nacional de Investigadores - Level I (2021-2023)
- PhD in Mathematical Sciences from The University of Manchester, United Kingdom
- MSc in Computers Science from INAOE, Mexico
- BSc in Computer Science from BUAP, Mexico

**Present appointment:**

- Cátedra-CONACyT - Computer Science department at INAOE - (2018)

**LGAC:**

- Procesamiento de imágenes y señales biomédicas

**Links:**

- **Personal page**
  - <https://ccc.inaoep.mx/~jcp.sansalvador/>
- **INAOE's profile**
  - <https://ccc.inaoep.mx/directorio/investigadores/jcp.sansalvador.php>
- **Google Scholar**
  - <https://scholar.google.com/citations?user=vT3cxikAAAAJ&hl=en>
- **Research Gate**
  - [https://www.researchgate.net/profile/Julio-Perez-Sansalvador?ev=hdr\\_xprf](https://www.researchgate.net/profile/Julio-Perez-Sansalvador?ev=hdr_xprf)
- **Scopus**
  - <https://www.scopus.com/authid/detail.uri?authorId=37120748900>
- **ORCID**
  - <https://orcid.org/0000-0002-2656-3659>