

## PERSONAL INFORMATION

### Daniel Ruiz-Pérez

📍 Miami (United States)

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🔗 <https://github.com/DaniRuizPerez>

🔗 <https://www.linkedin.com/in/daniel-ruiz-perez>

📅 Date of birth 04/12/1993 | 🇪🇸 Nationality Spanish | 🇺🇸 Visa Status F1

## HIGHER EDUCATION

2016–Present

### Ph.D. In Computer Science

Florida International University, Miami (United States).

GPA: 4.0 (Top 1%).

Areas of research: Bioinformatics, Machine Learning, Data Mining, Algorithms.

2015–Present

### M.S. in Software Engineering

University of A Coruña (Spain).

GPA: 3.52 (Top 5%).

2011–2015

### B.S. in Computer Science

University of A Coruña (Spain).

GPA: 3.41 (Top 5%).

Senior project collaborating with CHROMEVOL (FIU): Application of machine learning techniques to analyze genomic data and development of a bioinformatics platform (<http://chromevol.fiu.edu/>).

## WORK EXPERIENCE

2016–Present

### Graduate assistant

Florida International University, Miami (United States).

Researcher at the Bioinformatics Research Group (BioRG). Teaching experience:

- Graduate Theory of Computation (COT 5310).
- Introduction to Microcomputers (CGS 2060).
- Academic Success Initiative ambassador for Programming I and II, Discrete Math and Discrete Structures.

2015–2016

### Junior software engineer

Aldaba Information Technology and Services, A Coruña (Spain).

Analysis, design, development, implementation and maintenance of custom software solutions such as an expert system in Java using IBM ODM and an alarm system in case of radioactive alert in C#.

2014–2015

### Undergraduate research assistant

Dept. of Information and Communication Technologies. University of A Coruña (Spain).

Use of machine learning to analyze genomic data and development of bioinformatic application.

2012–2014

### Judo Instructor

Cambre Ocio SL, A Coruña (Spain).

## PERSONAL SKILLS

- Languages**
- **Spanish, Galician:** Native
  - **English:** Full professional proficiency (TOEFL iBT 104/120).
  - **French, Portuguese:** Elementary proficiency.
- Job-related skills**
- Programming Languages: Python, R, Matlab, Java, C#.
  - Experience in Machine learning, Algorithms, Data Mining, Time Series, Bioinformatics, Software Engineering, Computer Vision
- Other skills**
- Certified Judo instructor and 2<sup>o</sup>Dan Judo black belt. Several times autonomic champion and competitor in Spanish and international championships.

## RESEARCH WORK

- Publications**
- **Ruiz-Perez D**, Narasimhan G (2018). So you think you can PLS-DA? bioRxiv doi 10.1101/207225
- Abstracts and Posters**
- **Ruiz-Perez D**, Colbert B, Coudray M, Mathee K, Madhivanan P, Narasimhan G (2018). Vaginal microbial profile of women with asymptomatic bacterial vaginosis in US (Abstract and Oral Presentation). Microbiology Society Annual Conference at Birmingham (UK).
  - Suarez-Ulloa V, Aguiar-Pulido V, **Ruiz-Perez D**, Narasimhan G, Eirin-Lopez JM (2016). Network-based analysis of chromatin-associated gene expression dynamics in response to environmental stress (Poster). Intelligent Systems for Molecular Biology (ISMB) at Orlando, FL (USA).
  - Colbert B, Coudray M, **Ruiz Perez D**, Kumari H, Madhivanan P, Narasimhan G, Mathee K (2018). To Treat or not to Treat: Bacterial Vaginosis and its Relationship to Human Papillomavirus (Poster). Microbiology Society Annual Conference at Birmingham (UK).
- Speaker at**
- Microbiology Society Annual Conference 2018 at Birmingham (UK). Podium presentation title: "Vaginal microbial profile of women with asymptomatic bacterial vaginosis in US."
  - Annual Biomedical and Comparative Immunology Symposium 2018 at Miami, FL (USA). presentation title: "Vaginal microbial profile of women with asymptomatic bacterial vaginosis in US."
  - International Work-Conference on Bioinformatics and Biomedical Engineering 2016 (IWBBIO) at Orlando, FL (USA) presenting the paper entitled "Network-inspired approaches for transcriptomic analyses."
  - International Conference on Biomedical Research 2014 at A Coruña (Spain), presenting the paper entitled "Bioinformatic Platform for the storage and query of massive sequencing data."

## ADDITIONAL INFORMATION

- Honors and awards**
- International Scholar Laureate Program (ISLP) Delegation on Engineering & Technology. Best project award, 2018.
  - ISLP Delegation on Engineering & Technology, Golden Key full scholarship, 2018
  - Biomedical Research Initiative Award, 2017.
  - Graduate Assistantship from Florida International University, 2016-Present.
  - Undergraduate research scholarship from the Ministry of Science and Education, Spain, 2015.
  - Graduated from high school with honours. GPA: 3.98, 2011.
- Exams**
- ETS GRE Quantitative: 168/170.
- Societies and fraternities**
- Golden Key International Honor Society
  - Lambda Chi Alpha, High Rho Position.