

Senior scientist with experience in scientific industry combining experimental research and visual data communication. Equipped with the ability to work on several simultaneous graphic and research projects by utilising skills gained in academia and biotech industry. Research accomplishments are documented and illustrated in multiple peer-reviewed publications. Excellent collaborator with experience working in multicultural laboratories in several countries. Pro-active and independent professional who thrives in challenging projects. Seeks to work in a creative, friendly and collaborative team to get technical experience on digital graphic design applied to healthcare and pharmaceutical sectors.

Work Experience

Scientific industry

Senior scientist/Technical lead

Abcam (Cambridge, UK)

September 2022 - October 2023

- Designed, generated and presented oral presentations for Academic research, Biotech and Pharmaceutical customers.
- Improved layouts and templates for clear data visualisation.
- Conceptualised and created an SOP (standard operating procedure) for analysis of mass spectrometry application.
- Generated charts for monthly dashboards using Excel and Graph Pad Prism.
- Managed multiple Custom projects and research related tasks simultaneously.

Academia

Postdoctoral fellow

MRC Laboratory of Molecular Biology (Cambridge, UK)

June 2016 - February 2022

- Conceptualised and developed a scientific project from experimental design and execution to visual communication of results using different creative media:
 - Oral presentations (Power point, Illustrator, Photoshop)
 - Posters (Illustrator and Photoshop)
 - Reports (Word)
 - Scientific article (published in EMBO J)
- Co-authored 6 publications in peer reviewed journals conducting experiments, analysing data and writing manuscripts
- Prepared data graphs, information graphics and schematics to explain research finding and biology tools
- Collaborated with multiple teams and technical facilities and initiated 3 collaborations with external research groups to implement new techniques

Postdoctoral fellow

University of Heidelberg

Department of infectious diseases (Germany)

June 2009 - April 2006

- Executed a research project on Hepatitis C virus infection and mode of action of drugs, that was published in a high impact medical journal (Gastroenterology).
- Prepared oral presentations and posters for scientific seminars, and national and international conferences.
- Designed and executed schematics and complex scientific illustrations for my projects and for collaborations.
- Sketched 2 scientific illustrations for a review article (co-author) in Nature Reviews Microbiology and liaised with the Creative team to generate the digital version.
- Published 3 lead author research articles and 2 reviews, in addition to 11 co-authorships participating in experimental execution, figure generation and writing.

Postdoctoral fellow/PhD student

Centro de Biología Molecular Severo Ochoa

Department of Molecular Biology (Madrid, Spain)

February 2006 - June 2009

September 2001 - January 2006

- Developed a doctoral thesis in the virology field
Created the layout for the thesis and all written and graphic content including data charts, figures, schematics and illustrations.
- Published 4 lead author research articles, 4 co-authorships and a book chapter
- Prepared and presented 2 presentations at two international symposia
- Produced and presented scientific posters at national conferences

Publications

Information graphics and Data visualisation published in scientific editorials:

Plos Pathogens (Plos) 2016

Cell Host & Microbe (Cell Press journal) 2014

RNA Biology (Taylor & Francis Online) 2011

Viruses (MDPI) 2015

List of scientific publications

2003 - 2023

Link to [Vanesa Madan - Google Scholar](#)

Education

University Autonoma of Madrid (Spain)

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| 2006 | PhD in Molecular Biology Summa cum laude |
| 2003 | MSc in Biochemistry & Molecular Biology |
| 2001 | Bachelor's degree in Biochemistry & Molecular Biology |

Technical Skills

Adobe Suite

Illustrator, Photoshop

Office suite

Power point, Word, Excel

Graph Pad Prism

Image J

Transferable Skills

Analytical and critical thinking

Problem-solving

Organisation

Attention to detail

Visual communication

Scientific writing

Languages

English - Fluent

German and French - Elementary

Spanish - Native