

Anderson Fernandes de Brito

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EDUCATION

- 2014 – Present** **PhD in Computational Biology** **Imperial College London, UK**
- PhD Thesis: “Evolutionary Systems Biology of Virus-Host Interactions”, supervised by Dr John Pinney
 - Research keywords: Bioinformatics; Molecular Evolution; Phylogenetics; Structural Biology
 - Supervised research projects of MSc and Undergraduate students
 - Taught undergraduates and marked their coursework as a Teaching Assistant in Bioinformatics
- 2011 – 2013** **MSc in Microbiology** **University of São Paulo, Brazil**
- MSc Dissertation: “Genomic diversity analysis of geographic isolates of nucleopolyhedroviruses *Anticarsia gemmatalis* (AgMNPV)”, supervised by Dr Paolo Zanutto
 - Research keywords: Virology; Genome Sequencing, Assembly and Annotation; Systems Biology
 - Devised, wrote and managed a successful research grant that funded equipment and reagents for two years of MSc research (~£40,000)
- 2007 – 2010** **BSc (Hons) in Biological Sciences** **University of Brasília, Brazil**
- Research keywords: Virology; Cell Culture; DNA extraction; PCR; Entomology
 - Final degree award: 4.3 out of 5.0 (equivalent to a UK First Class Degree, or Grade A)
 - Co-organised two conferences (UnB Biology Week), with seminars and workshops for 300+ students
- 2007 – 2010** **Licentiate (Hons) in Biological Sciences** **University of Brasília, Brazil**
- Accomplished a series of courses (540 hours) on Pedagogy, including topics in Psychology, Didactics and two Teaching internships in public schools.

AWARDS

- Obtained an MSc scholarship from FAPESP (São Paulo Research Foundation).
- Obtained a 4-year PhD scholarship from the Brazilian Ministry of Education.
- Awarded a ‘Certificate of Recognition’ from the ABEP-UK Board of Directors 2016-17, thanks to my commitment, dedication, management and teamwork skills shown as a Director of that Association.
- Granted an Imperial College DoLS Travel Award for attending an international conference

PUBLICATIONS

Brito AF, Pinney JW. The evolution of protein domain repertoires: shedding light on the origins of herpesviruses. *bioRxiv*. 2018; Preprint

Brito AF, Pinney JW. Time-calibrated tree reconciliations reveal frequent losses, intrahost speciations, and host switches in the evolution of herpesviruses. *bioRxiv*. 2018; Preprint

Brito AF, Melo FL, Ardisson-Araújo DMP, Sihler W, Souza ML, Ribeiro BM. Genome-wide diversity in temporal and regional populations of the betabaculovirus *Erinnyis ello* granulovirus (ErelGV). *BMC Genomics*. 2018; *In press*

Brito AF, Pinney JW. Protein-Protein Interactions in Virus-Host Systems. *Frontiers in microbiology*. 2017;8:1557.

Brito AF, Braconi CT, Weidmann M, Dilcher M, Alves JM, Gruber A, et al. The Pangenome of the *Anticarsia gemmatalis* Multiple Nucleopolyhedrovirus (AgMNPV). *Genome biology and evolution*. 2015;8(1):94-108.

Villabona-Arenas CJ, **Brito AF**, de Andrade Zanotto PM. Genomic mosaicism in two strains of dengue virus type 3. *Infect Genet Evol*. 2013;18:202-12.

Oliveira JVC, **Brito AF**, Braconi CT, Freire CCM, Iamarino A, Zanotto PMA. Modularity and evolutionary constraints in a baculovirus gene regulatory network. *BMC Syst Biol*. 2013;7(1):87.

WORK EXPERIENCE

- Aug 2016 – Jul 2017** **Executive Director**, Association of Brazilian Students and Researchers in the United Kingdom (ABEP-UK, abep.org.uk), United Kingdom
- Represented this 37-year-old association in events at Embassies, Universities and other institutions
 - Coordinated, analysed the data, and produced a report as result of a student satisfaction survey aimed at scholars funded abroad by the Brazilian Government
 - Organized the 9th ABEP-UK Annual Conference gathering Brazilian researchers/students in Europe
- Aug 2016 – Jul 2017** **Vice President**, Imperial College Latin American Society, United Kingdom
- Organized several events promoting the Latin American Culture (History, Dance, Culinary) to Students
 - Managed the Society's social media and online communication with external institutions
- Jul 2016 – Present** **Student Representative**, Imperial College Brazil Forum (imperial.ac.uk/brazil-forum), United Kingdom
- Promoted seminars and networking events to Brazilian Scholars in London
 - Designed the current logo and visual identity of the IC Brazil Forum
- Nov 2009 – Apr 2011** **Undergraduate Researcher**, Brazilian Agricultural Research Corporation, Brazil
- Conducted experiments involving cell culture; *in vivo* and *in vitro* viral infections; and protein analysis
- May 2009 – Jun 2010** **Co-founder & Marketing Director**, Sapiens Biological Consulting, Brazil
- Negotiated with Academics and the Head of Department for the establishment of this Junior Enterprise
 - Designed the enterprise's logo and visual identity; and managed its website and social media
- Apr 2004 – Dec 2005** **Informatics teacher**, Power School of Informatics, Brazil
- Instructed children, adults and older people to operate computers and software
 - Designed course materials for teaching operating systems, Microsoft Office programs, CorelDraw and Photoshop

CONFERENCES

Selected poster presentations

- Presented a poster at the 12th International Conference of the Brazilian Association of Bioinformatics and Computational Biology (AB₃C). November 2016, Belo Horizonte, Brazil
- Presented a poster at the 12th Brazilian Symposium of Biological Control. July 2011, São Paulo, Brazil
- Presented a poster at the 62th Annual Conference of the Brazilian Society for the Advancement of Science (SBPC). July 2010, Natal, Brazil.

Selected Oral presentations

- Gave a talk at the annual meeting of the Society for Molecular Biology and Evolution. July 2018, Yokohama, Japan.
- Gave a talk at the 28th Annual Workshop on Mathematical and Statistical Aspects of Molecular Biology (MASAMB). March 2018, St Andrews, Scotland.

- Gave a talk at the EMBO Practical Course 'Integrative Modelling of Biomolecular Interactions'. July 2016, Barcelona, Spain
- Gave a talk at the 8th Annual Conference of the Association of Brazilian Postgraduate Students and Researchers in the United Kingdom (ABEP-UK). May 2016, London, United Kingdom

Workshop

- Conducted a two-day Workshop called 'Graphic Design Applied to Science Communication' at the 15th Biology Week of the University of Brasília. October 2016, Brasília, Brazil

TECHINICAL SKILLS

- Proficient at Computer Programming: Python, R, Perl and Bash
- Experience using High Performance Computing (HPC) platforms.
- Advanced experience in Graphic Design (CorelDraw; Illustrator; Circos; iTOL)
- Experience in Web Design (HTML, WordPress, GitHub Pages)
- Language proficiency: Portuguese (Native speaker); English; and Spanish

SOCIETY MEMBERSHIPS

2018 – Present	Society for Molecular Biology and Evolution (SMBE), International
2018 – Present	Iberoamerican Society for Bioinformatics (SolBio), International
2017 – Present	Brazilian Society for the Advancement of Science (SBPC), Brazil
2017 – Present	Imperial College Brazil Forum, United Kingdom
2015 – Present	Association of Brazilian Students and Researchers in the United Kingdom (ABEP-UK), United Kingdom

INTERESTS

- Active member of the Toastmasters International (Public Speaking) Club at Imperial College
- Passionate about Latin American partner dancing, member of the Imperial College Dance Society
- Enthusiastic about History, Anthropology, and Social Sciences in general
- Wikipedia Editor since 2010, improving articles quality and providing them with illustrations