Rodolfo Aramayo, PhD

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EDUCATION AND TRAINING

Institution And Location	Degree/Title	Field Of Study
University of Brasília, Brasília, D.F., Brazil	BS	Molecular Biology
University of Brasília, Brasília, D.F., Brazil	MS	Molecular Biology
University of Georgia, Athens, GA, USA	PHD	Genetics
University of Wisconsin, Madison, WI, USA	Research Assistant	Genetics
University of Wisconsin, Madison, WI, USA	Assistant Researcher	Genetics
Stanford University, Palo Alto, CA, USA	Research Associate	Genetics

PROFESSIONAL SKILLS
Professional Skills

Bioinformatics, Genomics, and AI Integration

• **Omics Data Analysis:** Expert in interpreting genomic, epigenomic, transcriptomic, and proteomic data, enabling advanced research and practical applications.
• **Human, Fungal, and Bacterial Genetics and Genomics:** Comprehensive expertise in genetic analysis and interpretation across multiple organisms.
• **Bioinformatics Pipeline Development:** Skilled in designing efficient pipelines for high-throughput genomic data processing.
• **Next-Generation Sequencing (NGS):** Advanced proficiency with Illumina, Pacific Biosciences, and Ion Torrent platforms for DNA and RNA sequencing analysis.
• **Genome and Transcriptome Assembly and Annotation:** Extensive experience in genome and transcriptome assembly, annotation, and in-depth genetic analyses.
• **Comparative Genomics, Proteomics, and Metagenomics:** In-depth knowledge and practical experience in analyzing comparative genomic datasets, proteomic profiling, and metagenomic research.
• **Algorithm Development for Biological Data:** Expert in creating advanced computational algorithms tailored for processing DNA, RNA, and protein data.
• **AI Integration and Machine Learning:** Proven ability in integrating biological datasets with machine learning and artificial intelligence frameworks.
• **AI Interaction and Prompt Engineering:** Skilled at developing sophisticated prompts and enhancing AI interactions to optimize biological data analysis workflows.
• **Pharmaceutical Research Environment:** Solid understanding of bioinformatics applications in drug discovery and pharmaceutical contexts, supporting multidisciplinary collaboration.
• **Functional Genomics and Big Data Analytics:** Proficient in statistical methods for large-scale omics data integration and functional genomics interpretation.
• **Bioinformatics Databases and Tools:** Experienced in leveraging public databases (e.g., NCBI, EMBL-EBI) and collaborating with computational biology teams to solve scientific challenges.

Programming, Technical, and AI Training Skills

• **High-Performance Computing and Slurm:** Expert in supercomputing environments, proficient with Slurm job scheduling, scripting, and task management.
• **System Deployment and Optimization:** Skilled in deploying and optimizing computational systems for high-performance tasks, enabling efficient large-scale data analyses.

• **Programming and Scripting:** Advanced proficiency in Python (including Pandas), R, Perl, C/C++, Linux, and Bash/Shell scripting.

• **R for Bioinformatics and Statistical Analysis:** Expert in utilizing R for bioinformatics workflows, data visualization, and statistical evaluations.

• **Bioinformatics and Database Integration:** Proficient in integrating bioinformatics software (e.g., Galaxy) with SQL and PostgreSQL databases.

• **Version Control and Collaboration:** Expert-level user of Git/GitLab and GitHub, facilitating version-controlled collaborative research projects.

• **Data Analysis and Visualization:** Skilled with Jupyter Lab for interactive, exploratory data analysis and high-quality visualization.

• **Galaxy-based Data Analysis:** Experienced in utilizing Galaxy platform for comprehensive genomic analyses and visualization.

• **Software Deployment and Cloud Solutions:** Adept at deploying and compiling bioinformatics software across diverse computing environments, including cloud infrastructure.

• **Image Analysis and Algorithm Development:** Proficient in large-scale biological image analysis, manipulation, and algorithm implementation integrated into bioinformatics pipelines.

• **Nextflow, Shiny, and Cloud Computing:** Competent in workflow development and web-based bioinformatics tools, providing scalable and accessible computational solutions.

• **Visualization Tools and R/Bioconductor Packages:** Experienced in producing effective, publication-quality visualizations.

• **Collaborative Troubleshooting:** Strong collaborator, proficient in problem-solving, troubleshooting, and communicating complex scientific findings clearly.

• **AI Annotation and Training:** Skilled in dataset annotation, AI model training, validation, and iterative model refinement for biological applications.

Industry, Leadership, and Innovation

• **Strategic Industry Consultancy:** Experienced consultant known for strategic insights, project leadership, and results-driven approaches.

• **Leadership and Mentorship:** Proven capability to lead and supervise research teams, mentoring postdoctoral researchers, graduate, and undergraduate students.

• **Analytical and Organizational Skills:** Demonstrated strength in analytical problem-solving, clear communication, and organizational efficiency adaptable to diverse professional environments.

• **Innovative Interdisciplinary Thinking:** Capable of simplifying complex scientific concepts and effectively applying engineering mindsets to molecular biology and bioinformatics challenges.

Molecular Biology, Biochemistry, and Genome Engineering

• **Advanced Molecular Biology Techniques:** Extensive expertise in DNA, RNA, and protein extraction, purification, and characterization.

• **Molecular Genetics and Genome Engineering:** Advanced capabilities in genome engineering strategies and mutant generation, particularly in bacterial (*Escherichia coli*, *Bacillus subtilis*) and fungal (*Aspergillus nidulans*, *Neurospora crassa*, *Saccharomyces cerevisiae*) model organisms.

TEACHING SKILLS
Courses Developed:
- **Computational Genomics (Undergraduate Level) and Genomics (Graduate Level).** The Computational Genomics and Genomics courses equip students with fundamental skills in genome data acquisition, manipulation, and analysis, utilizing computational tools like Galaxy and CyVerse, to prepare them for the Genomics Revolution and contemporary biological research.

- **Digital Biology (Graduate Level).** Digital Biology is an introductory command-line-driven course aimed at preparing students for the paradigm shift in biology brought about by Genomics and Computational Genomics. It focuses on developing terminal-based skills for data manipulation, version control, scripting, and utilizing computational tools for mapping and assembly of transcriptome data, using resources like Cyverse and TAMU Supercomputer Grace.
- **Advanced Eukaryotic Genetics and Epigenetics (Graduate Level).** This advanced graduate level course delves into genetics and epigenetics topics related to RNA silencing, covering genetic approaches in both small and large eukaryotic organisms, including fungi and mice. It explores non-mendelian genetic segregation and the biology of non-coding RNAs, exposing students to current molecular and genetic literature. By the course's end, students are expected to possess advanced knowledge of genetic and epigenetic mechanisms in key model organisms and relevant epigenetic phenomena.
- **Information in Biology (Graduate and Undergraduate Levels).** This course aimed to tackle the interdisciplinary nature of information transfer in biology, exploring the laws and processes governing it. The hypothesis posited was that similar principles observed in other systems, such as large corporations, also apply to unicellular organisms like *Escherichia coli*, and vice versa. The ultimate goal was to translate these concepts into the development of software or hardware with properties of "evolvability."
- **Courses Taught:** Cellular and Molecular Biology, Fundamentals of Microbiology, and Bacterial Genetics

EMPLOYMENT
- **Associate Professor.**
  Department of Biology, College of Arts and Sciences.
  Texas A&M University, College Station, TX, USA

SCIENTIFIC APPOINTMENTS
- **Editor. PeerJ, The Journal of Life & Environmental Sciences.**
  San Diego, CA, USA
- **Section Editor – Genetics and Genomics. PLoS ONE, Public Library of Science One.**
  San Francisco, CA, USA

INDUSTRIAL CONSULTING EXPERIENCE
- **Member Advisory Board, F2G, Ltd., Manchester, UK**
  Area(s) of Expertise: Genetics and Genomics
- **Genencor, Palo Alto, CA, USA**
  Area(s) of Expertise: Genetics and Genomics
- **Schering-Plough Research Institute, Kenilworth, NJ, USA**
  Area(s) of Expertise: Genetics and Genomics
- **Scriptgen Pharmaceuticals, Walthan, MA, USA**
  Area(s) of Expertise: Genetics and Genomics

GOVERNMENT CONSULTING EXPERIENCE
- **National Center for Genetic Resources and Biotechnology (CENARGEN).**
  EMBRAPA. Brasília, D. F., Brazil
  Area(s) of Expertise:
    Development of Software for the analysis of nucleic acids and proteins
    Development of Optimization Algorithms applied to Biotechnology and Agriculture
    Development of laboratory automation applied to Biotechnology

LANGUAGES

- **Spanish:** Advanced
- **Portuguese:** Advanced

SELECTED PEER-REVIEWED PUBLICATIONS

1.   White B, Aramayo R. Identification and Characterization of Reciprocal Amino-Acids Residues Substitutions. In preparation. 2024.

2.   Ramirez P, MH M, Aramayo R, Mateos M. Diverse toxin repertoire but limited metabolic capacities inferred from the draft genome assemblies of three Spiroplasma (Citri clade) strains associated with Drosophila. bioRxiv. 2024:2024.09.23.613922v1. doi: 10.1101/2024.09.23.613922.

3.   Bennett CJ, Aramayo R. A Re-Analysis of an Existing Drosophila melanogaster Dataset Reveals a New Set of Genes Involved in Post-Mating Response. bioRxiv. 2024:2024.04.10.588867. doi: 10.1101/2024.04.10.588867.

4.   Aramayo R. Evaluating the impact of sequence duplications on the measurement of transcriptional profiling in the Human genome. In Preparation. 2024.

5.   Aramayo R, Nan B. De Novo Assembly and Annotation of the Complete Genome Sequence of Myxococcus xanthus DZ2. Microbiol Resour Announc. 2022;11(5):e0107421. Epub 20220406. doi: 10.1128/mra.01074-21. PubMed PMID: 35384715; PMCID: PMC9119067.

6.   Gerth M, Martinez-Montoya H, Ramirez P, Masson F, Griffin JS, Aramayo R, Siozios S, Lemaitre B, Mateos M, Hurst GDD. Rapid molecular evolution of Spiroplasma symbionts of Drosophila. Microb Genom. 2021;7(2). doi: 10.1099/mgen.0.000503. PubMed PMID: 33591248; PMCID: PMC8208695.

7.   Maitra N, He C, Blank HM, Tsuchiya M, Schilling B, Kaeberlein M, Aramayo R, Kennedy BK, Polymenis M. Translational control of methionine and serine metabolic pathways underpin the paralog-specific phenotypes of Rpl22 ribosomal protein mutants in cell division and replicative longevity. bioRxiv. 2020.

8.   Maitra N, He C, Blank HM, Tsuchiya M, Schilling B, Kaeberlein M, Aramayo R, Kennedy BK, Polymenis M. Translational control of one-carbon metabolism underpins ribosomal protein phenotypes in cell division and longevity. Elife. 2020;9:e53127. Epub 20200520. doi: 10.7554/eLife.53127. PubMed PMID: 32432546; PMCID: PMC7263821.

9.   Mateos M, Silva NO, Ramirez P, Higareda-Alvear VM, Aramayo R, Erickson JW. Effect of heritable symbionts on maternally-derived embryo transcripts. Sci Rep. 2019;9(1):8847. Epub 20190620. doi: 10.1038/s41598-019-45371-0. PubMed PMID: 31222094; PMCID: PMC6586653.

10.   Stavrianakou M, Perez R, Wu C, Sachs MS, Aramayo R, Harlow M. Draft de novo transcriptome assembly and proteome characterization of the electric lobe of Tetronarce californica: a molecular tool for the study of cholinergic neurotransmission in the electric organ. BMC Genomics. 2017;18(1):611. Epub 20170814. doi: 10.1186/s12864-017-3890-4. PubMed PMID: 28806931; PMCID: PMC5557070.

11.   Li H, Wu C, Aramayo R, Sachs MS, Harlow ML. Synaptic vesicles isolated from the electric organ of Torpedo californica and from the central nervous system of Mus musculus contain small ribonucleic acids (sRNAs). Genom Data. 2017;12:52-3. Epub 20170308. doi: 10.1016/j.gdata.2017.02.015. PubMed PMID: 28367405; PMCID: PMC5361766.

12.   Clanton RM, Wu G, Akabani G, Aramayo R. Control of seizures by ketogenic diet-induced modulation of metabolic pathways. Amino Acids. 2017;49(1):1-20. Epub 20160928. doi: 10.1007/s00726-016-2336-7. PubMed PMID: 27683025.

13.   Blank HM, Perez R, He C, Maitra N, Metz R, Hill J, Lin Y, Johnson CD, Bankaitis VA, Kennedy BK, Aramayo R, Polymenis M. Translational control of lipogenic enzymes in the cell cycle of synchronous, growing yeast cells. EMBO J. 2017;36(4):487-502. Epub 20170105. doi: 10.15252/embj.201695050. PubMed PMID: 28057705; PMCID: PMC5694946.

14.   Aramayo R, Polymenis M. Ribosome profiling the cell cycle: lessons and challenges. Curr Genet. 2017;63(6):959-64. Epub 20170427. doi: 10.1007/s00294-017-0698-3. PubMed PMID: 28451847; PMCID: PMC5790165.

15. Sauceda DJ AR, Youssef S, Dima A, chaudhary N, Karaman I, Perez R, Aramayo R., editor. Data and Tools for Materials Discovery and Design. Data and Tools for Materials Discovery and Design Materials Science & Technology 2015; 2015 October 4; Columbus, OH, USA Columbus, OH: Conference Tools for Materials Science & Technology 2015; c2015; 2015.

16. Polymenis M, Aramayo R. Translate to divide: Control of the cell cycle by protein synthesis. Microb Cell. 2015;2(4):94-104. Epub 20150320. doi: 10.15698/mic2015.04.198. PubMed PMID: 28357283; PMCID: PMC5348972.

17. Li H, Wu C, Aramayo R, Sachs MS, Harlow ML. Synaptic vesicles contain small ribonucleic acids (sRNAs) including transfer RNA fragments (trfRNA) and microRNAs (miRNA). Sci Rep. 2015;5(1):14918. Epub 20151008. doi: 10.1038/srep14918. PubMed PMID: 26446566; PMCID: PMC4597359.

18. Ilori MO, Picardal FW, Aramayo R, Adebusoye SA, Obayori OS, Benedik MJ. Catabolic plasmid specifying polychlorinated biphenyl degradation in Cupriavidus sp. strain SK-4: mobilization and expression in a pseudomonad. J Basic Microbiol. 2015;55(3):338-45. Epub 20130621. doi: 10.1002/jobm.201200807. PubMed PMID: 23787897.

19. Aramayo R, Selker EU. Neurospora crassa, a model system for epigenetics research. Cold Spring Harb Perspect Biol. 2013;5(10):a017921. Epub 20131001. doi: 10.1101/cshperspect.a017921. PubMed PMID: 24086046; PMCID: PMC3783048.

20. Wajid B AR, Serpedin E., editor. Exploring Minimum Description Length and Probabilistic Distributions of the Reference Sequences for Comparative Assembly of Genomes. In: Cristea P, editor Proceedings of the International Conference International Conference on Genomic Signal Processing; 2011.

21. Lee DW, Millimaki R, Aramayo R. QIP, a component of the vegetative RNA silencing pathway, is essential for meiosis and suppresses meiotic silencing in Neurospora crassa. Genetics. 2010;186(1):127-33.

22. Borkovich K, Ebbole DJ. Cellular and molecular biology of filamentous fungi. American Society for Microbiology Press; 2010.

23. Aramayo R, Pratt RJ. Meiotic *trans*-Sensing and Silencing in Neurospora. Cellular and Molecular Biology of Filamentous Fungi. 2010:132-44.

ELECTRONIC PUBLICATIONS

1. Aramayo R. Transcripts_Plots_Python. In: https://doi.org/10.5281/zenodo.14962604, editor. Zenodo. v2025-02-28-1.0.2 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2025.

2. Aramayo R. The third international hackathon for applying insights into large-scale genomic composition to use cases in a wide range of organisms. F1000Research. 2022. Epub June 22, 2022. doi: 10.5256/f1000research.121770.r139299.

3. Aramayo R. Teaching Computational Genomics: A Tale of Tables and Tests. In: https://doi.org/10.5281/zenodo.6634707, editor. Zenodo. v2022-06-11-1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2022.

4. Aramayo R. Taxonomy_Fasta_Headers_Python. In: https://doi.org/10.5281/zenodo.14967828, editor. Zenodo. v2025-03-04-1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2025.

5. Aramayo R. A re-analysis of an existing Drosophila melanogaster dataset reveals a new set of genes involved in post-mating response. In: https://doi.org/10.5281/zenodo.10928217, editor. Zenodo. v2024-04-04-1.0.4 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.

6. Olalekan R, Laver J, Yuka G, Biggane J, Aramayo R, Nagesh V, authors o. PREreview of "Epigenetic deprogramming driven by disruption of CIZ1-RNA nuclear assemblies in early-stage breast cancers". In: https://doi.org/10.5281/zenodo.13896173, editor. Zenodo. v1 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.

7.   Oliveras A, Silvera M, Coskun P, Bajaj T, Aramayo R, Saikia Q, Faria-Pereira A, Yuka G, Davies M, Laver L, author o. PREreview of "Cytoplasmic ribosomes hitchhike on mitochondria to dendrites". In: https://doi.org/10.5281/zenodo.14268614, editor. Zenodo. v1 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.

8.   Aramayo R. PepStats_Tables_Python. In: https://doi.org/10.5281/zenodo.10889792, editor. Zenodo. v2024-03-28-1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.

9.   Aramayo R. PepStats_Tables_Bash. In: https://doi.org/10.5281/zenodo.12209240, editor. Zenodo. v2024-06-21-1.0.5 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.

10.   Aramayo R. Myxococcus xanthus DZ2 Genome Assembly. In: https://doi.org/10.5281/zenodo.6359694, editor. Zenodo. v2022-03-16-1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2022.

11.   Aramayo R. HeatMap_Tables_Python. In: https://doi.org/10.5281/zenodo.15150156, editor. Zenodo. v2025-04-04-1.0.2 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2025.

12.   Aramayo R. Fasta_Seq_Prepare_Bash. In: https://doi.org/10.5281/zenodo.12209223, editor. Zenodo. v2024-06-21-1.0.5 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.

13.   Aramayo R. Fasta_Seq_Plot_Bash. In: https://doi.org/10.5281/zenodo.12209220, editor. Zenodo. v2024-06-21-1.0.7 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.

14.   Aramayo R. Fasta_GFF3_Equalizer_Bash. In: https://doi.org/10.5281/zenodo.12209207, editor. Zenodo. v2024-06-21-1.0.2 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.

15.   Gallucci JL, Aramayo R. Do Public Databases Need Higher Standards for Next-Generation Data Submissions? In: https://doi.org/10.5281/zenodo.7943045, editor. Zenodo. v2023-05-16-1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2023.

16.   Aramayo R. Digital_Biology. In: https://doi.org/10.5281/zenodo.6626236, editor. Zenodo. v2022-06-08-1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2022.

17.   Aramayo R. Computational_Genomics. In: https://doi.org/10.5281/zenodo.7897471, editor. Zenodo. (v2023-05-04-2023-1.0.3 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2023.

18.   Aramayo R. Compara_lists. In: https://doi.org/10.5281/zenodo.6584768, editor. Zenodo. v2022-05-26-1.0.1 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2022.

19.   Aramayo R. Busco_Plot. In: https://doi.org/10.5281/zenodo.10945686, editor. Zenodo. v2024-04-08-1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.

20.   Aramayo R. Bioinformatics_Fall_2021. In: https://doi.org/10.5281/zenodo.6620727, editor. Zenodo. v2022-06-07-2021-1.0.2 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2022.

21.   Aramayo R. Assessing the Influence of Sequence Duplications and Genome Annotations on Transcriptional Profiling Measurements. In: https://doi.org/10.5281/zenodo.11122398, editor. Zenodo. v2024-05-06-1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.

FUNDING

2.   Aramayo R. Digital Biology - BIO210035. Texas A&M University: Advanced Cyberinfrastructure Coordination Ecosystem: Services & Support (ACCESS) - National Science Foundation (NSF); 2024.

3.   Aramayo R. Digital Biology - BIO210035. Texas A&M University: Advanced Cyberinfrastructure Coordination Ecosystem: Services & Support (ACCESS) - National Science Foundation (NSF); 2023.

4.   Aramayo R, Thakar H. Type I - An Exploration on the Authenticity of the Ancient Triactyl Peruvian Mummies Using Radiocarbon Dating and Potential Genetic Characterization. Texas A&M University: Seed Grant Program for Promoting Research Collaborations (College of Liberal Arts, College of Science, and College of Geosciences); 2022.

5.   Aramayo R. Digital Biology - BIO210035. Texas A&M University: Advanced Cyberinfrastructure Coordination Ecosystem: Services & Support (ACCESS) - National Science Foundation (NSF); 2022.

6.   Aramayo R. Digital Biology - BIO210035. Texas A&M University: The Extreme Science and Engineering Discovery Environment (XSEDE) - National Science Foundation (NSF); 2021.

7.   Aramayo R, Smith L. Drug Use and Abuse: Defining How Cocaine Affects the Addition of Wild-Type and Fragile X Mental Retardation-1 Mutants Texas A&M University: Texas A&M University. College of Sciences (COS) FY19 - Strategic Transformative Research Program 2019.

8.   Posada JR, Aramayo R, Medina R. Characterizing The RNAs And DNAs Populations In Eggs As Tools To Assess Honey Bee Queen Fertility. Texas A&M University: T3 – Texas A&M Triads for Transformation; 2018.

9.   Polymenis M, Aramayo R, Kennedy B. Coupling of Protein Synthesis with Cell Division. Texas A&M University: R01 GM123139-01, National Institutes of Health; 2017.

10.   Aramayo R. Computational Detection of Novel Structural Variants in Cancer Genomes. Texas A&M University: dbGaP: 18340, National Institutes of Health - NCBI; 2017.

11.   Aramayo R. Molecular Structure of the Monoamine Oxidase A (MAOA) Gene In Patients Diagnosed with Antisocial Personality Disorder. Texas A&M University: dbGaP: 18414, National Institutes of Health - NCBI; 2017.

12.   Aramayo R. Computational Detection of Structural Variants Present in Standard Somatic Reference and Cancer Genomes. Texas A&M University: dbGap: 19769, National Institutes of Health - NCBI; 2017.

13.   Aramayo R, Arroyave R, Gutierrez-Osuna R. Development of "Big Data" Scientific Workflow Management Tools for the Materials Genome Initiative: Materials Galaxy. Texas A&M University: Interdisciplinary Seed Grants in Big Data program of the Texas A&M Engineering Experiment Station and the Dwight Look College of Engineering in partnership with Texas A&M University Division of Research; 2014.

14.   Aramayo R, Arroyave R. Materials Science Galaxy: A Web-based Materials Scientific Workflow Management System. Texas A&M University: Department of Materials Sciences. Texas A&M University; 2014.

15.   Aramayo R. Advancing Big Data in Science. Texas A&M University: Texas A&M University: 230082, VPR Seed Grant; 2014.

16.   Aramayo R. The Aggie Undergraduate Genomics Corps (AUGC): A catalytic concept for advancing undergraduate biological education at Texas A&M. Texas A&M University: Texas A&M University: 246049, Tier One Program (TOP) 2012.

17.   Aramayo R. Genetic and Molecular Study of Meiotic Trans-sensing and Meiotic Silencing. Texas A&M University: RGM058770, National Institutes of Health; 1999.

ONLINE PROFESSIONAL PROFILES

- **NCBI:** My Bibliography
- **ORCID**

PROFESSIONAL MEMBERSHIPS (PAST AND PRESENT)

- **Member:** Genomics Education Alliance
- **Member:** Genome in a Bottle Consortium
- **Member:** Free Software Foundation
- **Member:** Electronic Frontier Foundation
- **Member:** AAAs
- **Member:** ASHG