

Résumé

I specialize in open source software for scientific research. I currently develop high performance data science and bioinformatics tools for the Pathogen and Microbiome Institute at Northern Arizona University.

I am also interested in AI, machine learning, decision theory, effective altruism, algorithmic trading, natural language processing and computational musicology.

Contact

Phone	+1-480-447-5572
Email	inbox.asanchez@gmail.com
Web	www.andrewsanchez.me
Github	github.com/andrewsanchez

Skills

Languages	Python, BASH, R, Java, LISP
Tools	Git, SLURM, UNIX, Pandas, Scikit-learn, Jupyter, Pytest, Flask
Software and Research	High Performance Computing, Reproducibility, Automated Testing, Continuous Integration and Delivery
Business	Email Marketing, Automation, Quality Assurance

Experience

Pathogen and Microbiome Institute since 2016-01-01	Data Science and Software Engineering
---	---------------------------------------

Bioinformatics software for pathogen genomics research at Northern Arizona University. Use of the Python scientific stack for quality control and curation of public genomic databases and automated analysis of species-based statistics and metadata.

Center for Ecosystem Science and Society 2014-01-01 to 2016-01-01	Data Science and Software Engineering
--	---------------------------------------

Image analysis, research and field work for ecological research at Northern Arizona University. Image processing tools to analyze how native grasses respond to different climates.

Fluent Forever since 2016-01-01	Technical Operations Admin
------------------------------------	----------------------------

Automation, quality assurance and consulting for the most crowdfunded app in Kickstarter and Indiegogo history. Programming APIs of major platforms such as Zendesk, ActiveCampaign, WooCommerce, Indiegogo and Google products for task automation and structuring, processing and analyzing data that informs and supports business operations.

Publications

Bacterial Genome Reduction as a Result of Short Read Sequence Assembly

bioRxiv 2016-12-03

Quality Control and Curation of Public Genomic Databases

NAU's Under Graduate Research And Design Symposium 2017-04-28

Service

The Carpentries Data Science and Coding Instructor
Intensive workshops to teach foundational coding and data science skills to researchers.

AFS Intercultural Programs Volunteer
As a foreign exchange student returnee from the Netherlands, I support AFS by offering consulting for technical operations and working directly with international students and families.

Education

Thomas Edison State University BS, Computer Science
In Progress
Data science, machine learning, language design, algorithms and operating systems.

Northern Arizona University Music and Biology
74 Credits
Music theory, composition and performance. Microbiology, genetics and genomics.

Languages

English Native speaker
Dutch Intermediate