

JOSELYN C. CHÁVEZ-FUENTES

I'm a Postdoctoral Fellow at the Icahn School of Medicine at Mount Sinai focused on the development of open source software for spatial transcriptomics.

Besides my work's project, I'm interested in R package development, expanding R communities, and teaching. As a board member of the Community of Developers in Software for Bioinformatics [CDSB](#), the Mexican Network of Bioinformatics [RMB](#), and as co-founder of the chapter [R-Ladies Cuernavaca](#), part of the global initiative R-Ladies, I frequently organize and teach R workshops. Thanks to my interest and work on spreading the programming knowledge, I have been awarded scholarships from RStudio and Bioconductor to present my contributions as a developer on international conferences. Recently, I also was part of the organizing committee of the [user conference 2021](#) and the [LatinR conference 2021](#).



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EDUCATION

- 2021**
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2017
Ph.D. Biochemical Sciences
Enrique Merino's Lab 📍 Biotechnology Institute, UNAM
 - Thesis: Analysis of transcriptional regulatory elements among bacterial and archaeal *phyla*.
- 2017**
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2015
M.Sc., Biochemical Sciences
Viviana Valadez-Graham's Lab 📍 Biotechnology Institute, UNAM
 - Thesis: Role of the proteins dAtrx and Dadd1 in the telomeric maintenance of *Drosophila melanogaster* (honors thesis project).
- 2013**
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2009
B.S., Biotechnology Engineer
📍 UPIIG-IPN
 - Thesis: Analysis of the PvuATXR3h gene regulation in secondary roots and during the nodule organogenesis of *Phaseolus vulgaris*.

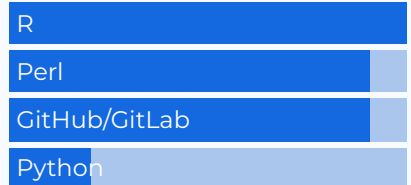
RESEARCH POSITIONS

- present**
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2022
Postdoctoral Fellow
Yuan Guo-Cheng's Lab 📍 Icahn School of Medicine at Mount Sinai
- 2013**
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2012
Undergraduate Researcher
Raúl Álvarez-Venega's Lab 📍 CINVESTAV-IPN
 - Analysis of the PvuATXR3h gene regulation in secondary roots and during the nodule organogenesis of *Phaseolus vulgaris*.

CONTACT

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- in [joselyn-chavez](#)
- 📄 [ORCID](#)

LANGUAGE SKILLS



Made with the R package [pagedown](#).

The source code is available on [github.com/josschavezf/cv](#) and is powered by [nstrayer/datadrivencv](#).

Last updated on 2022-05-19.

GROUPS

current
|
2021

● **Certified Instructor of Software Carpentries**

The Carpentries - Metadocencia

- R for reproducible scientific analysis

current
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2020

● **Board Member of the Bioinformatics Network of Mexico [RMB](#)**

- Teaching and organizing monthly bioinformatics short courses available [online](#).

current
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2019

● **Board Member of the Community of Developers in Software for Bioinformatics [CDSB](#)**

- Teaching and organizing annual workshops available [online](#).

current
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2019

● **Co-founder of [R-Ladies Cuernavaca](#)**


- Teaching and organizing meetups available [online](#)

TEACHING EXPERIENCE

2021

● **[CDSB Workshop 2021: Building Workflows with RStudio and Development of Shiny Apps](#)**

TIBs 2021

 Virtual format

- Instructor and organizer.

2020

● **R for Bioinformatics**

Graduate course

 Biotechnology Institute, UNAM

- Part of the Graduate program of Biochemical Sciences.

2020

● **[CDSB Workshop 2020: Building workflows with RStudio and Bioconductor for single cell RNA-seq analysis.](#)**

TIBs 2020

 Virtual format

- Instructor and organizer.

2019

● **Programming with Perl**

Graduate course

 Biotechnology Institute, UNAM

- Part of the Graduate program of Biochemical Sciences.

- 2019 ● **Programming with R: writing packages**
RUNA, Peru 📍 Virtual format
· One-week invited online course.

☰ PUBLICATIONS

- 2022 ● **Ten simple rules to host an inclusive conference**
PLOS Computational Biology
· Rocío Joo[†], Andrea Sánchez-Tapia[†], Sara Mortara, Yanina Bellini Saibene, Heather Turner, Dorothea Hug Peter, Natalia Soledad Morandeira, Matt Bannert, Batool Almazrouq, Elizabeth Hare, Laura Ación, Juan Pablo Narváez-Gómez, Marcela Alfaro Córdoba, Federico Marini, Rita Giordano, Silvia Canelón, Anicet Ebou, Adithi Upadhyya, **Joselyn Chávez**, Janani Ravi + Equal contribution
- 2021 ● **Complementary Tendencies in the Use of Regulatory Elements Transcription Factors, Sigma Factors, and Riboswitches in Bacteria and Archaea**
Journal of Bacteriology
· **Joselyn Chávez**, Damien P. Devos, Enrique Merino
- 2020 ● **Programmatic access to bacterial regulatory networks with regutools**
Bioinformatics
· **Joselyn Chávez**[†], Carmina Barberena-Jonas[†], Jesus E Sotelo-Fonseca[†], José Alquicira-Hernández, Heladia Salgado, Leonardo Collado-Torres, Alejandro Reyes
- 2017 ● **dAdd1 and dXNP prevent genome instability by maintaining HP1a localization at Drosophila telomeres**
Chromosoma
· **Joselyn Chavez**[†], Juan Manuel Murillo-Maldonado[†], Vanessa Bahena, Ana Karina Cruz, América Castañeda-Sortibrán, Rosario Rodríguez-Arnaiz, Mario Zurita & Viviana Valadez-Graham
- 2015 ● **Expression profiling and down-regulation of three histone lysine methyltransferase genes PvATXR3h, PvASHH2h, and PvTRX1h in the common bean**
Plant OMICS
· Aaron Barraza, Francisco Luna-Martínez, **Joselyn C. Chávez-Fuentes**, Raúl Álvarez-Venegas,



R PACKAGES

- 2020 ● [regutools](#)
Co-author and Maintainer 📍 Bioconductor
- 2020 ● [erba](#)
Author and Maintainer 📍 GitHub



POSTS

- 2021 ● [First Annual Meeting R-Ladies Mexico](#)
R-LadiesMX blog
· Summarizing the first annual meeting of all R-Ladies chapters in Mexico.
- 2021 ● [Preparing for an Accessible Online Conference](#)
UseR2021 blog
· Accessibility guidelines for virtual conferences.



AWARDS

- 2020 ● [Diversity Scholarship](#)
RStudio::conf 2020 📍 San Francisco, USA
· Attending the workshop: What they forgot to teach you about R? By Jenny Bryan
- 2020 ● [Developer scholarship](#)
Bioc2020 📍 Virtual format
· Presenting a BoF and poster
- 2019 ● [Developer scholarship](#)
Bioc2019 📍 New York City, USA
· Presenting a contributors short talk



TALKS AND POSTERS

- 2022 ● [Introduction to R and RStudio](#)
R-Ladies Comitán 📍 Virtual format
· Invited talk
- 2022 ● [Working with RStudio projects](#)
R-Ladies Cuernavaca 📍 Virtual format

- 2021 ● **An introduction to the R/Bioconductor Ecosystem**
R-Ladies Baltimore 📍 Virtual format
 - Invited talk
- 2021 ● **Introduction to R and RStudio**
RMB mini courses 📍 Virtual format
 - Instructor and organizer.
- 2021 ● **Creating plots with ggplot2**
RMB mini courses 📍 Virtual format
 - Instructor and organizer.
- 2021 ● **Efforts of the CDSB community**
ConectaR 2021 📍 Virtual format
 - Contributed talk with Erick Cuevas-Fernandez, Leonardo Collado-Torres and Alejandro Reyes.
- 2021 ● **Panel: Initiatives with a gender perspective in science**
Physiology Institute, UNAM 📍 Virtual format
 - Invited talk
- 2021 ● **Incubator: Five principles to grow up your R community**
useR 2021 📍 Virtual format
 - Contributed with Erick Cuevas-Fernandez, Leonardo Collado-Torres and Alejandro Reyes.
- 2021 ● **Talk: Using R in Latin America: the great, the good, the bad, and the ugly**
useR 2021 📍 Virtual format
 - Contributed with Virginia A. García-Alonso; Paola Corrales; Claudia A. Huaylla; Andrea Gómez-Vargas and Denisse Fierro-Arcos.
- 2020 ● **Working with lists in R**
R-Ladies Cuernavaca 📍 Cuernavaca, Mexico
 - Meetup
- 2020 ● **Writing our first Bioconductor package as members of the CDSB community**
Bioconductor Developers Forum 📍 Virtual format
 - Invited participation with Carmina Barberena-Jonas and Emiliano Sotelo-Fonseca
- 2020 ● **CDSB community: efforts to strengthen the R/Bioconductor developer community in Mexico/LatAm**
BioC2020 📍 Virtual format
 - Birds of a Feather session with Carmina Barberena-Jonas, Emiliano Sotelo-Fonseca, Leonardo Collado-Torres and Alejandro Reyes

- 2020 ● **Poster: The study of transcriptional regulatory elements using 'erba' reveals a phylum-dependent compensatory effect**
BioC2020 📍 Virtual format
· Contributed Poster. Authored with Damien P. Devos and Enrique Merino.
- 2020 ● **Panel: What we talk about when it comes to accessibility?**
Latin-R Conference 📍 Virtual format
· Invited participation
- 2020 ● **Creating a new wave of software developers in Mexico and Latin America**
Open Source Software Contributors Meeting 📍 Virtual format
· Contributed talk with Carmina Barberena-Jonas, Leonardo Collado-Torres and Alejandro Reyes
- 2020 ● **Panel: Challenges and Perspectives of R-LadiesMX**
R-LadiesMX First Annual Meeting 📍 Virtual format
- 2020 ● **Introduction to R and RStudio**
RMB mini courses 📍 Virtual format
· Instructor and organizer.
- 2019 ● **A collaborative approach to improve access to bacterial regulatory networks using R/Bioconductor**
Bioc2019 📍 New York City, USA
· Developer's talk presenting the regutools package.
- 2019 ● **Introduction to R: variables and help**
R-Ladies Cuernavaca 📍 Cuernavaca, Mexico
· Meetup
- 2016 ● **Poster: The role of dAtrx ATPase in telomeric maintenance of Drosophila melanogaster.**
2nd MexFly Meeting 📍 Mexico City, Mexico

2016



Poster: The role of dAtrx ATPase in telomeric maintenance of *Drosophila melanogaster*.

National Biochemistry Meeting

📍 Aguascalientes, Mexico