

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.
- **M.Sc., Biochemical Sciences**
Viviana Valadez-Graham's Lab 📍 Biotechnology Institute, UNAM
 - Thesis: Role of the proteins dAtrx and Daddl in the telomeric maintenance of *Drosophila melanogaster* (honors thesis project).
- **B.S., Biotechnology Engineer** 📍 UPIIG-IPN
 - Thesis: Analysis of the PvuATXR3h gene regulation in secondary roots and during the nodule organogenesis of *Phaseolus vulgaris*.

2017
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2015

- **Postdoctoral Fellow**
Yuan Guo-Cheng's Lab 📍 Icahn School of Medicine at Mount Sinai

2013
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2009

RESEARCH POSITIONS

present
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2022

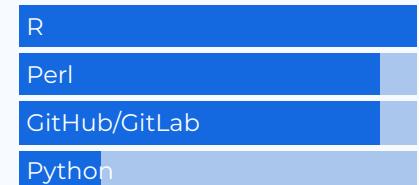
- **Undergraduate Researcher**
Raúl Álvarez-Venega's Lab 📍 CINVESTAV-IPN
 - Analysis of the PvuATXR3h gene regulation in secondary roots and during the nodule organogenesis of *Phaseolus vulgaris*.

2013
|
2012

CONTACT

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[🐦 josschavezf1](https://twitter.com/josschavezf1)
[🐙 josschavezf](https://github.com/josschavezf)
[🔗 josschavezf.github.io](https://github.com/josschavezf.github.io)
[🔗 joselyn-chavez](https://www.linkedin.com/in/joselyn-chavez/)
[☰ ORCID](https://orcid.org/0000-0002-9000-0000)

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
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2021

- **Certified Instructor of Software Carpentries**
The Carpentries - Metadocencia
 - R for reproducible scientific analysis
- **Board Member of the Bioinformatics Network of Mexico [RMB](#)**
 - Teaching and organizing monthly bioinformatics short courses available [online](#).
- **Board Member of the Community of Developers in Software for Bioinformatics [CDSB](#)**
 - Teaching and organizing annual workshops available [online](#).
- **Co-founder of [R-Ladies Cuernavaca](#)**
 - Teaching and organizing meetups available [online](#)

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
|
2019

- **Board Member of the Community of Developers in Software for Bioinformatics [CDSB](#)**
 - Teaching and organizing annual workshops available [online](#).

current
|
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
• One-week invited online course.

📍 Virtual format

2022

✉ PUBLICATIONS

- **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 Upadhyा, **Joselyn Chávez**, Janani Ravi
- **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
- **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
- **dAdd1 and dXNP prevent genome instability by maintaining HP1α localization at Drosophila telomeres**
Chromosoma
• **Joselyn Chavez**, Juan Manuel Murillo-Maldonado*, Vanessa Bahena, Ana Karina Cruz, América Castañeda-Sortibrán, Rosario Rodriguez-Arnaiz, Mario Zurita & Viviana Valadez-Graham
- **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,

+ Equal contribution

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	<ul style="list-style-type: none"> An introduction to the R/Bioconductor Ecosystem R-Ladies Baltimore <ul style="list-style-type: none"> Invited talk 	📍 Virtual format
2021	<ul style="list-style-type: none"> Introduction to R and RStudio RMB mini courses <ul style="list-style-type: none"> Instructor and organizer. 	📍 Virtual format
2021	<ul style="list-style-type: none"> Creating plots with ggplot2 RMB mini courses <ul style="list-style-type: none"> Instructor and organizer. 	📍 Virtual format
2021	<ul style="list-style-type: none"> Efforts of the CDSB community ConectaR 2021 <ul style="list-style-type: none"> Contributed talk with Erick Cuevas-Fernandez, Leonardo Collado-Torres and Alejandro Reyes. 	📍 Virtual format
2021	<ul style="list-style-type: none"> Panel: Initiatives with a gender perspective in science Physiology Institute, UNAM <ul style="list-style-type: none"> Invited talk 	📍 Virtual format
2021	<ul style="list-style-type: none"> Incubator: Five principles to grow up your R community useR 2021 <ul style="list-style-type: none"> Contributed with Erick Cuevas-Fernandez, Leonardo Collado-Torres and Alejandro Reyes. 	📍 Virtual format
2021	<ul style="list-style-type: none"> Talk: Using R in Latin America: the great, the good, the bad, and the ugly useR 2021 <ul style="list-style-type: none"> Contributed with Virginia A. García-Alonso; Paola Corrales; Claudia A. Huaylla; Andrea Gómez-Vargas and Denisse Fierro-Arcos. 	📍 Virtual format
2020	<ul style="list-style-type: none"> Working with lists in R R-Ladies Cuernavaca <ul style="list-style-type: none"> Meetup 	📍 Cuernavaca, Mexico
2020	<ul style="list-style-type: none"> Writing our first Bioconductor package as members of the CDSB community Bioconductor Developers Forum <ul style="list-style-type: none"> Invited participation with Carmina Barberena-Jonas and Emiliano Sotelo-Fonseca 	📍 Virtual format
2020	<ul style="list-style-type: none"> CDSB community: efforts to strengthen the R/Bioconductor developer community in Mexico/LatAm BioC2020 <ul style="list-style-type: none"> Birds of a Feather session with Carmina Barberena-Jonas, Emiliano Sotelo-Fonseca, Leonardo Collado-Torres and Alejandro Reyes 	📍 Virtual format

- 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