

JOSELYN C. CHÁVEZ-FUENTES

I am an enthusiastic PhD Student interested on transcriptional regulation. I have wet-lab experience working with plants and *Drosophila melanogaster*, as well as dry-lab experience analyzing bacterial genomes from public databases. During the last four years, I have developed R packages for my own research project, and for managing the regulonDB database in the R environment. Besides my research project, I enjoy teaching R and organizing workshops 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.



👤 GROUPS

current
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2019

- **Board Member of the Community of Developers in Software for Bioinformatics CDSB¹**
 - Teaching and organizing annual workshops available online².
- **Board Member of the Bioinformatics Network of Mexico RMB³**
 - Teaching and organizing monthly bioinformatics short courses available online⁴.
- **Co-founder of R-Ladies Cuernavaca⁵**
 - Teaching and organizing meetups available online⁶

current
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2020

current
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2019

🎓 EDUCATION

current
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2017

- **PhD. Candidate, Biochemical Sciences** 📍 Biotechnology Institute, UNAM
Enrique Merino's Lab
 - Thesis: Analysis of transcriptional regulatory elements among bacterial and archaeal phyla.

2017
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2015

- **M.Sc., Biochemical Sciences** 📍 Biotechnology Institute, UNAM
Viviana Valadez-Graham's Lab
 - Thesis: Role of the proteins dAtrx and Daddl1 in the telomeric maintenance of *Drosophila melanogaster* (honors thesis project).

2013
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2009

- **B.S., Biotechnology Engineer** 📍 UPIIG-IPN
Silao, Mexico
 - Thesis: Analysis of the PvuATXR3h gene regulation in secondary roots and during the nodule organogenesis of *Phaseolus vulgaris*.

View this CV online with links at
josschavezf.github.io/cv

CONTACT

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[🔗 josschavezf.github.io](https://josschavezf.github.io)
[in joselyn-chavez](https://www.linkedin.com/in/joselyn-chavez/)
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LANGUAGE SKILLS



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

The source code is available on
github.com/josschavezf/cv.

Last updated on 2021-04-16.

RESEARCH EXPERIENCE

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*.

TEACHING EXPERIENCE

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.⁷**
TIBs 2020  Virtual format
 - Instructor and organizer.

2020

- **Introduction to R and RStudio⁸**
RMB mini courses  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.

POSTS

2021

- **First Annual Meeting R-Ladies Mexico⁹**
R-LadiesMX blog
 - Summarizing the first annual meeting of all R-Ladies chapters in Mexico.

2021

- **Preparing for an Accessible Online Conference¹⁰**
UseR2021 blog
 - Accessibility guidelines for virtual conferences.

R PACKAGES

- 2020 • **regutools¹¹**
Co-author and Maintainer  Bioconductor
- 2020 • **erba¹²**
Author and Maintainer  GitHub

PUBLICATIONS

- 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 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
- 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,

AWARDS

- 2020 • **Diversity Scholarship**
RStudio::conf 2020  San Francisco, USA
· Attending the workshop: What they forgot to teach you about R? By Jenny Bryan
- 2019 • **Developer scholarship**
Bioc2019  New York City, USA
· Presenting a contributors short talk

2019	<ul style="list-style-type: none"> ● Developer scholarship Bioc2020 <ul style="list-style-type: none"> • Presenting a BoF and poster 	📍 Virtual format
TALKS AND POSTERS		
2021	<ul style="list-style-type: none"> ● An introduction to the R/Bioconductor Ecosystem¹³ R-Ladies Baltimore <ul style="list-style-type: none"> • Invited talk 	📍 Virtual format
2021	<ul style="list-style-type: none"> ● Efforts of the CDSB community¹⁴ 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
2020	<ul style="list-style-type: none"> ● Working with lists in R¹⁵ 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/LatAm¹⁶ 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	<ul style="list-style-type: none"> ● Poster: The study of transcriptional regulatory elements using ‘erba’ reveals a phylum-dependent compensatory effect¹⁷ BioC2020 <ul style="list-style-type: none"> • Contributed Poster. Authored with Damien P. Devos and Enrique Merino. 	📍 Virtual format
2020	<ul style="list-style-type: none"> ● Panel: What we talk about when it comes to accessibility? Latin-R Conference <ul style="list-style-type: none"> • Invited participation 	📍 Virtual format

2020	<ul style="list-style-type: none"> ● Creating a new wave of software developers in Mexico and Latin America¹⁸ Open Source Software Contributors Meeting • Contributed talk with Carmina Barberena-Jonas, Leonardo Collado-Torres and Alejandro Reyes 	📍 Virtual format
2020	<ul style="list-style-type: none"> ● Panel: Challenges and Perspectives of R-LadiesMX¹⁹ R-LadiesMX First Annual Meeting 	📍 Virtual format
2019	<ul style="list-style-type: none"> ● A collaborative approach to improve access to bacterial regulatory networks using R/Bioconductor²⁰ Bioc2019 • Developer's talk presenting the regutools package. 	📍 New York City, USA
2019	<ul style="list-style-type: none"> ● Introduction to R: variables and help²¹ R-Ladies Cuernavaca • Meetup 	📍 Cuernavaca, Mexico
2016	<ul style="list-style-type: none"> ● Poster: The role of dAtrx ATPase in telomeric maintenance of Drosophila melanogaster. 2nd MexFly Meeting 	📍 Mexico City, Mexico
2016	<ul style="list-style-type: none"> ● Poster: The role of dAtrx ATPase in telomeric maintenance of Drosophila melanogaster. National Biochemistry Meeting 	📍 Aguascalientes, Mexico

🔗 LINKS

- 1: <https://comunidadabioinfo.github.io>
- 2: <https://www.youtube.com/watch?v=rtP4zmbR3p4&list=PLwa0ZAE6DJg5h-7uTFZjgP7VZUEadZZfI>
- 3: <http://www.redmexicanadebioinformatica.org/>
- 4: https://www.youtube.com/watch?v=rtyv49poP_k&list=PLwa0ZAE6DJg66mMnRH1LyR16RZTswat6n
- 5: <https://rladiesmx.netlify.app/en/>
- 6: <https://www.youtube.com/channel/UCFT7Tgi7UAzR-eyzjoxBzxA>
- 7: <https://comunidadabioinfo.github.io/post/cdsb2020-building-workflows-with-rstudio-and-scrnaseq-with-bioconductor/#.YHdbRC1h1mB>
- 8: https://comunidadabioinfo.github.io/minicurso_dic2020/estructuras_de_datos_estructuras_de_datos.html
- 9: <https://rladiesmx.netlify.app/en/post/2021-01-06-blog-encuentro2020-en/>
- 10: <https://user2021.r-project.org/blog/2021/02/17/preparing-for-an-accessible-conference/>
- 11: <https://bioconductor.org/packages/release/bioc/html/regutools.html>
- 12: <https://github.com/joschavezf/erba>
- 13: https://joschavezf.github.io/slides_rladies_bmore/intro-bioconductor.html
- 14: <https://speakerdeck.com/erickcf/cdsb-conectar-2021>
- 15: https://github.com/RLadiesCuerna/presentaciones_meetups/blob/master/2020_feb/listas.pptx

- 16: <https://speakerdeck.com/lcolladotor/cdsb-bioc2020-birds-of-a-feather>
- 17: <https://f1000research.com/posters/9-722>
- 18: <https://speakerdeck.com/josschavezf/ccoss-2020-creando-una-nueva-ola-de-desarrolladores-de-software-libre-con-la-comunidad-cdsb-mexico>
- 19: <https://www.youtube.com/watch?v=Pa1AVNRj-uk>
- 20: <https://speakerdeck.com/josschavezf/bioconductor>
- 21: https://github.com/RLadiesCuerna/presentaciones_meetups/blob/master/2019_oct/variables.pptx