



# Comunidad de Desarrolladores de Software en Bioinformática

Community of Bioinformatics Software Developers

- 2017: conception at BioC2017
- 2018: first workshop ^\_^
- 2019: maintaining momentum

<https://comunidadbioinfo.github.io/>

Leonardo Collado Torres @felligernon  
lcolladotor.github.io



@lcfgunam

# SEMINARS **ON** **FRONTIERS IN GENOMICS**

Fall 2007

Sandrine Dudoit



@cendrinou

<https://www.stat.berkeley.edu/users/sandrine/>

Sandrine Dudoit:

# Who knows about



She's one of the @Bioconductor project founders!  
@cendrinou

James Bullard



January 2008

1 week intense course



<http://liigh.unam.mx/profile/dra-alejandra-medina-rivera/>



Developer's day + 2  
conference days

Supported by @lCGunam



# R/Bioconductor

Curso Intensivo Oct-Nov 2008

LEONARDO COLLADO & OSAM YÁÑEZ - Licenciatura en Ciencias Genómicas, LCG-UNAM

Oct 28 a Nov 14, 2008 -

## LCG (English)

This course was taught at the Undergraduate Program on Genomic Sciences (LCG in Spanish) from the National Autonomous University of Mexico (UNAM in Spanish). It was directed at the fifth semester students from the fourth generation. It was meant as a short R/Bioconductor course and was a part of the Bioinformatics and Statistics I subject. It had an official length of 12 class hours. For more information on this undergraduate program visit LCG's [main page](#). For example, the sections on [Development of the Genomic Sciences in Mexico](#) and [LCG's International Evaluation](#) could be of your interest.

@felligernon & Osam  
<http://lcolladotor.github.io/courses/Courses/R/>

Alejandro Reyes  
(first BioC: 2009)



@areyesq  
<http://alejandroreyes.org/>



BioC2009  
+ BioC2010  
+ BioC2011

Developer's day + 2 conference  
days

+ Europe Bioc 2010 <http://www-huber.embl.de/biocdeveurope2010/>



With support from:  
@Bioconductor,  
@lcgunam,  
@WINTERGENOMICS





**Martin Morgan** @mt\_morgan · Apr 11

[#bioc2018](#) [bioc2018.bioconductor.org](http://bioc2018.bioconductor.org)

 **Dr. Leonardo Collado-Torres** @fellgernon

Replying to @strnr

I really enjoy going to Bioc! There's always something new to learn and there are sessions for everyone regardless of where they are in the #rstats/@Bioconductor learning curve. Meeting size is great for interacting with many fellow Bioc devs/users. Though I can't go this year



Always ask for support!

- Support for traveling or registration or lodging
- Support for teaching: Robert Gentleman gave me free copies of books he had in his office (authors normally get several free copies of books)
- Support for community building: almost had Bioconductor's support in 2010ish for 1 visit, we didn't give up!  
#CDSBMexico
- Feel free to ask for help! We all started somewhere!!



Check your spam box and filters:

- Almost lost a scholarship for user!2013 that way :P

Check the dates for applying for support!



Ask for emails and keep in touch

- I asked for PhD application and career advice to Davis McCarthy @davisjmcc in 2010
- That's how I got into my PhD

Socialize!

Take advantage of opportunities offered to you!



**Daniela Witten**

@daniela\_witten

Following



My advice, in six words, for students (or anyone) attending their first JSM: \*go to all of the mixers\*!! [#JSM2018](#)

12:53 PM - 29 Jul 2018

5 Retweets 20 Likes



5



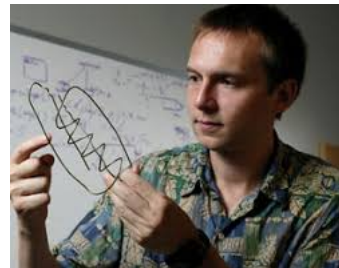
20



First time presenting a poster about an R package (BacterialTranscription):  
*Transcription initiation mapping and transcription unit identification in E. coli*



Rafael Irizarry  
<https://rafalab.github.io/>  
@rafalab



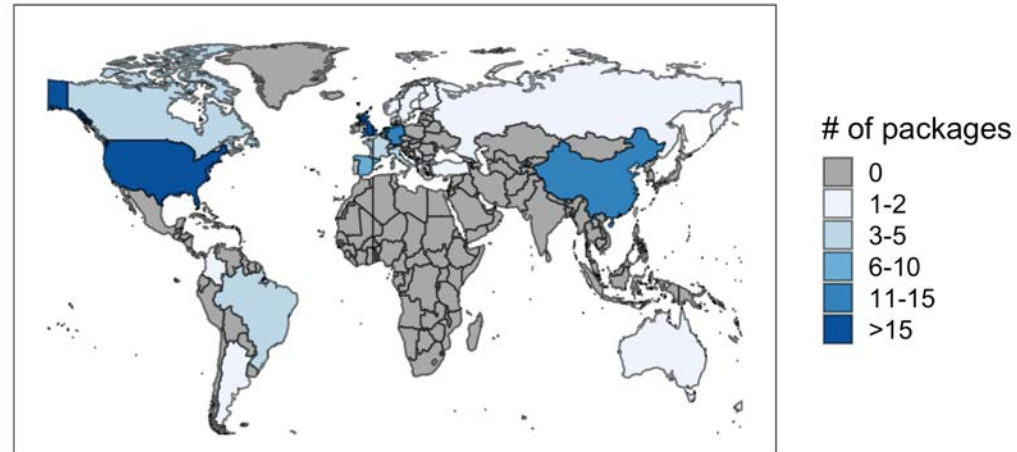
Ingo Ruczinski  
<http://www.biostat.jhsph.edu/~iruczins/>

Them: Have you heard about Johns Hopkins?

Me: Johns???? No idea

Them: come join us at @jhubiostat !!

Alejandro Reyes



Data from the last 667 submitted to Bioconductor through Github  
(Made in 2018)

@areyesq  
<http://alejandroreyes.org/>



# Congresos, Cursos y Talleres Organizados

## Eventos próximos

- Encuentro de Bioinformática en México 2019, conformado por los Talleres Internacionales de Bioinformática 2019 & CDSB Workshop 2019. Del 29 de Julio al 9 de Agosto de 2019.

## Eventos pasados

- Talleres Internacionales de Bioinformática 2018. Del 30 de Julio al 3 de Agosto de 2018.
- UCSC Genome Browser Workshop. Viernes 6 de Octubre de 2017.
- Talleres Internacionales de Bioinformática 2017-2 (Verano). Del 24 al 28 de Julio de 2017.
- Talleres Internacionales de Bioinformática 2017-1. Del 16 al 27 de Enero de 2017.
- Talleres Internacionales de Bioinformática 2014. Del 13 al 24 de Enero de 2017.
- Talleres Internacionales de Bioinformática 2012. Del 16 al 27 de Enero de 2012.
- Semana Nacional de Bioinformática NNB-2010. Del 2 al 6 de Agosto de 2010.
- Curso "Sequence Mining in Biological Databases: A case with EMBOSS and MRS". Del 22 al 26 de Marzo de 2010.
- 1er Taller de Genómica en Cuernavaca 2006 (Winter School in Genomics). Del 7 al 10 de Febrero de 2006.

<http://congresos.nnb.unam.mx/>





Interested → Users → Developers



How can we enable this step in  
LA/Mexico?





## Founders



Alejandra Medina  
Rivera, PhD

Investigator

Gene regulation,  
Bioinformatics



Alejandro Reyes,  
PhD

Genomic Data Scientist /  
Postdoc

Data Science, Genomics, R



Delfino García-  
Alonso

Laboratory Technician

Bioinformatics



Heladia Salgado  
Osorio

Laboratory Technician

Bioinformatics, Teaching



Leonardo Collado-  
Torres, PhD

Staff Scientist II

Genomics, R programming,  
Biostatistics, Teaching,  
Diversity

# Comunidad de Desarrolladores de Software en Bioinformática

Community of Bioinformatics Software Developers

- Community as a (virtual) university department.
- Constructive discussion of novel ideas.
- Exchange of expertise and multidisciplinary collaborations.
- Remove barriers for beginners (mentoring)
- More access to specialized training for Latin American talent.

<https://comunidadbioinfo.github.io/>



# Latin American R/Bioconductor Developers Workshop 2018

- Kick-starting event of the community.
- Teach participants the principles of reproducible data science through the development of R/Bioconductor packages.
- Turn bioinformatic software users into software developers.
- Continue with similar workshops in the future





Martin Morgan  
Bioconductor



Benilton Carvalho  
Uni Campinas



Selene Fernandez  
LANGEBIO



Alicia Mastretta Yanes  
CONABIO



María Teresa Ortíz  
CONABIO



Ale Medina  
LIIGH



Alejandro Ponce  
CONABIO



Leo Collado  
LIBD/Johns Hopkins



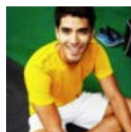
Heladia Salgado  
CCG



Laura Gomez  
CCG



Daniela Ledezma  
CCG



Alejandro Reyes  
DFCI/Harvard



YOU



YOU



YOU



Comunidad de Desarrolladores  
de Software de Bioinformática

A path for Latino American  
R users to become  
R developers and  
Bioconductor contributors



TIB2018  
CDSBMexico 2018  
Cuernavaca



BioC2019  
New York



Are you ready for #BioC2019?  
[bioc2019.bioconductor.org/schedule](https://bioc2019.bioconductor.org/schedule) We  
are thrilled about it! 🎉

Meet our members!

First, @AnaBetty2304 will present  
#PulmonDB which aims to help  
understand 🔍 lung diseases

📅 Wed June 26 10:30-12:00 Session  
4a

[anabva.github.io](https://anabva.github.io)

@Bioconductor #rstats

Day 2: Wednesday June 26

- 8:00 - 8:30 - Breakfast
- 8:30 - 9:00 - Larsen Clement
- 9:00 - 9:30 - Lihua Jia Zhu
- 9:30 - 10:00 - Anshul Kundaje
- 10:00 - 10:30 - Break
- 10:30 - 12:00 - Contributed talks Session 4a - Software focus
  - Nitesh Turaga - 3 reasons to "Bioconductor" on containers
  - Vincent Carey - Bioconductor as "cloud native"
  - Stuart Lee - Tidy coverage analysis with supertronic and plyranges
  - Nathan Sheffield - BioProject, a new Bioconductor-oriented project management class
  - Karim Raghvi - Storage and Analysis of Microbiome Quality Control Project Data through phyloSeq Package
  - [Anshul Kundaje](#) - [The next generation of genomic data analysis](#)
  - [Christopher Wilks](#) - [Snapean: rapid and flexible querying of RNA-seq data](#)
  - [Christopher Wilks](#) - [Snapean: rapid and flexible querying of RNA-seq data](#)

triz Villaseñor-Altamirano

He is an associate professor at the Faculty of Sciences and Bioinformatics, National University of Mexico (UNAM). He got his MSc in Biology from the National University of Mexico (UNAM). He got his PhD in Biology from the National University of Mexico (UNAM). He got his PhD in Biology from the National University of Mexico (UNAM). He got his PhD in Biology from the National University of Mexico (UNAM).



11:49 AM - 11 Jun 2019

8 Retweets 13 Likes









## A collaborative approach to improve access to bacterial regulatory networks using R/Bioconductor

Joselyn Chávez  
Instituto de Biología, UNAM, México  
BioC 2019, June 26th  
Twitter @josschavezf1



# histoneSig: working with continuous signal representations from the genome

César Miguel Valdez Córdova

Ensenada Center for Scientific Research and Higher Education  
(CICESE)

06-26-2019







International Laboratory for Human  
Genome Research



## PulmonDB: a curated gene expression database of lung disease

Case study: *Transcriptomic characterization of chronic  
obstructive pulmonary disease in lung tissue*

Ana Beatriz Villaseñor-Altamirano

[avillase@liigh.unam.mx](mailto:avillase@liigh.unam.mx)

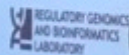
@AnaBetty2304

Ph:

Alejandra Medina Rivera

Julio Collado Vides

Melissa Selman





There are many  
communities you can join!

Ask for help / support /  
#rstats love ^\_^

📢 Join our new ✨ R-Ladies community Slack! ✨

It's aiming for a safe & global space to discuss topics and share ideas around #rstats & the #rladies community! 💜

We invite all non-cis male R users to sign-up via [bit.ly/rladies-slack](https://bit.ly/rladies-slack) 🚀



#Rladies  
@RLadiesGlobal



Following

[blog] [#runconf18](#) rOpenSci Educators  
Collaborative: How Can We Develop a  
Community of Innovative R Educators?

Post 3 of 3: [ropensci.org/blog/2018/07/2 ...](https://ropensci.org/blog/2018/07/2...)

by [@\\_lacion\\_](#) [@dataandme](#)  
[@fellgernon](#) [@RallidaeRule](#) [@apreshill](#)  
[@seankross](#) [@lincolnmullen](#)

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[@rOpenSci](#)

7:00 AM - 26 Jul 2018

18 Retweets 36 Likes







 **Dr. Leonardo Collado-Torres**

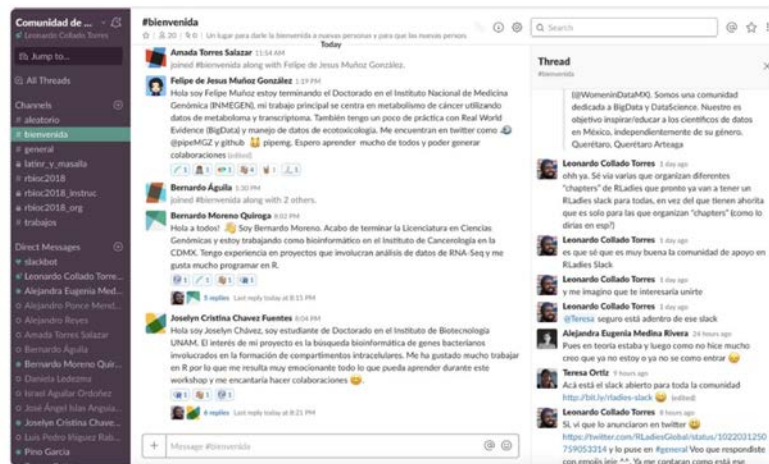
@fellgernon

Trying my best to impersonate  
[@StefanieButland](#) in my spare time for  
[@CDSBMexico](#) [#CDSBMexico](#) starting  
next week. Can't do all the interviews &  
all she does, she's awesome!  
[twitter.com/StefanieButlan ...](#)  
[twitter.com/StefanieButlan ...](#) But at  
least we got the welcome channel going  
=> [#rstats](#)

This is where it starts  
for you and us:  
[#CDSBMexico](#)  
[@CDSBMexico](#)

It's your home now!  
Help us build it and  
maintain it!

Submit your blog  
posts too!



8:36 PM - 25 Jul 2018





# Código de Conducta

[comunidadbioinfo.github.io/  
codigo-de-conducta/](https://comunidadbioinfo.github.io/codigo-de-conducta/)

Estamos aquí para aprender, no para otra cosa.  
Hay que asegurarnos de que todos seamos  
bienvenidos



