

# EVANGELINE ‘GINA’ REYNOLDS

<b>Current</b>	<p>Innovation and Developer Relations, Open Source Data Visualization, 2022-Present</p> <ul style="list-style-type: none"><li>• Founded and maintain <a href="#">developer gathering space</a> for data scientist visualization tool developers and enthusiasts</li><li>• Raise awareness of developer pain points, develop solutions (e.g. <a href="#">statexpress</a>, <a href="#">ggregions</a>, <a href="#">ggdims</a>)</li><li>• Moderate <a href="#">discussion board</a></li><li>• Build educational materials for extension newcomers (e.g. <a href="#">easy geom recipes</a>, <a href="#">easy.geom.recipes.package</a>, <a href="#">ggplot2 extension cookbook</a>, <a href="#">easy.geom.recipes.package</a>) and for ggplot2 newcomers (e.g. <a href="#">a ggplot2 grammar guide</a>, <a href="#">the ggplot2 flipbook</a>)</li><li>• Posit PBC partnership for developer advocacy.</li><li>• Coordinating <a href="#">speaker series</a>, select presenters:  Daniel Sjöberg (<a href="#">ggsurvfit</a>), June Choe (<a href="#">ggtrace</a>), Claus Wilke (<a href="#">cowplot</a>, <a href="#">ggtext</a>, <a href="#">ggridges</a>), Di Cook (<a href="#">GGally</a>), Barret Schloerke (<a href="#">GGally</a>), Thomas Lin Pedersen (<a href="#">marquee</a>), Winston Chang (<a href="#">ggproto</a> extension mechanism), Teun van den Brand (<a href="#">ggh4x</a>, <a href="#">legendry</a>, <a href="#">ggplot2</a> maintainer), Hadley Wickham (<a href="#">ggplot2</a>), Jason ‘Cory’ Brunson (<a href="#">ggalluvial</a>, <a href="#">ordr</a>), Mitchell OHara-Wild (<a href="#">ggtime</a>, <a href="#">distributional</a>), Matthew Kay (<a href="#">ggdist</a>, <a href="#">ggblend</a>), Hassan Kibirige (<a href="#">plotnine</a>)</li></ul>
<b>Skills &amp; Tools</b>	<p>Statistical Modeling, Machine Learning (with emphasis on viz), Descriptive Statistics (R, Stata, SPSS, Python); Visualization (<a href="#">ggplot2</a>, <a href="#">plotnine</a>, Tableau); Table Generation (<a href="#">pivot tables</a>, <a href="#">gt</a>, <a href="#">flextable</a>); Dashboarding (<a href="#">Shiny</a>, <a href="#">PowerBI</a>, <a href="#">Tableau</a>); Research Reporting (Scholarly, Institutional; <a href="#">markdown</a>, <a href="#">Quarto</a>, <a href="#">L<sup>A</sup>T<sub>E</sub>X</a>); Workflow/Pipeline Management (<a href="#">base R</a>, <a href="#">tidyverse</a>, <a href="#">SQL</a>); Research Software Engineering (experienced R package maintainer, 5 years); Statistical Consulting; Data Science Education (in-person and global); Version Control, Collaborative Workflows, <a href="#">Git</a>, <a href="#">Github</a>, <a href="#">Github Actions</a>; Interpersonal skills (Maintain congenial and productive working relationships with collaborators with diverse technical and subject area backgrounds); Tidyverse Fluency (<a href="#">dplyr</a>, <a href="#">ggplot2</a>, <a href="#">tidyr</a>, <a href="#">purrr</a>, etc); R Packaging Expertise (workflow tools, documentation, testing); Visualization Frameworks (<a href="#">spatial</a>, <a href="#">network</a>, <a href="#">grammar of graphics</a>, <a href="#">ggridges</a>); Contributor to popular open source libraries (<a href="#">ggplot2</a>, <a href="#">plotnine</a>); CRAN submission process (<a href="#">flipbookr</a>, <a href="#">tidytitanic</a>)</p>
<b>Previous</b>	<p>US Military Academy West Point August 2020-August 2023</p> <ul style="list-style-type: none"><li>• Developed data products for stakeholders across the Academy, enhancing communication of organization statistics.</li><li>• Created standard, semi-automated reports that streamlined data analysis processes.</li><li>• Taught ‘Introduction to Probability and Statistics’ in Department of Mathematical Sciences</li><li>• Guiding students through independent studies in statistical software development.</li></ul>

Visiting Teaching Assistant Professor, Korbel School of International Studies, University of Denver, September 2018-June 2020

- Instructor of graduate and undergraduate courses in quantitative methodology
- Statistical software development and research
- Oversaw graduate student researchers

License Officer, US Department of Commerce July 2005-July 2007

- Export License Application Review and coordinating with cooperation agencies
- Developed methods for streamlining review and summary

Laboratory Assistant, Argonne National Laboratory May 2004-July 2005

- Executing requirements for battery diagnostic experiments
- Reporting experimental results

**Software**  
**@EvaMaeRey**  
**on GitHub**

CRAN

- [flipbookr](#)
- [tidytitanic](#)

Select GitHub packages

- [ggregions](#)
- [ggdims](#)
- [ggcalendar](#)
- [ggcirclepack](#)
- [tidypivot](#)
- [knitrExtra](#)
- [statexpress](#)

**Education**

PhD 2016, University of Illinois, Urbana-Champaign

Political Science, International Relations, Comparative Politics with quantitative methods emphasis Dissertation Title: “Supranational Law and Compliance”

Chair: Xinyuan Dai

Committee members: Paul Diehl, Brian Gaines, Matthew Winters

BS 2004, Wheaton College, Magna Cum Laude

Majors: Chemistry & Spanish

Minors: International Relations & Music

**Teaching**  
**Experience**

Individual Student Advising & Assistantships:

West Point:

- Morgan Brown, Fall AY2022, Spring AY2022
- Madison McGovern, Fall AY2022
- Isaac Folorunso, Spring AY2023
- Michael Jax, Spring AY2023

University of Denver:

- Ryan Granier, 2019
- Rachel Goodman, 2020
- Luca Picci, 2020
- Conner Surrency, 2020
- Suraj Thapa, 2020
- Brittany Woodram, 2020

Courses at West Point

Introduction to Statistics and Probability MA206, (Spring AY2021; Fall AY2023, 2 sections)

Courses at University of Denver

Defense and Security Quantitative Analysis (Winter AY2019, Winter AY2020)

Data Science for International Relations (Winter AY2019; Spring 2019; Winter AY2020; Spring AY2020)

Defense and Security Methods (Fall AY2019, 2 sections; Fall AY2020, 2 sections)

Data Visualization (Spring 2020)

Courses at Technische Universität Dresden

Introduction to Data Science and Statistics for Political Analysis Spring AY2018

International Organization and Regimes, Spring AY2018, Spring AY2017

Selected PhD Teaching Assistantships at University of Illinois

Research Design, PS 522 (Graduate Level) with James Kuklinski, 2015

Quantitative Political Analysis I, PS 530 (Graduate Level) with Brian Gaines, 2015

Statistical Methods Teaching Support, Research Design PS 199 with James Kuklinski, 2015

Statistical Methods Teaching Support, PS 495/496 with Senior Honors Seminar/Senior Thesis, Jeffery Mondak, 2015

## Awards

R Consortium Grant, 2019-2020, R Statistical Software Ecosystem award for the creation of the flipbookr package

Best Dissertation in Political Science, 2015/2016 at the University of Illinois, Kathleen L. Burkholder Prize

Lemann Institute Collaborative Research Grant, 2015 with Amâncio Jorge Silva Nunes de Oliveira and Matthew S. Winters

University of Illinois 'Incomplete' List of Teachers Ranked as Excellent by their Students, Spring 2012, Fall 2016

Nelle M. Signor Graduate Scholarship for field research in International Relations, Fall 2011

Foreign Language and Area Studies Fellowship, Summer 2009 - Salvador, Brazil and academic years 2009-2010 & 2010-2011

Fulbright Argentina Country Program, March-December, 2008

National Security Education Program Scholarship, for study in Chile, 2003

**Working Papers**    Report for Posit, PBC: “‘Easy Geom Recipes’ insights from survey and focus group feedback”

“Who are the ggplot2 extenders?” with Joyce Robbins, Vivian Zheng and H. Sherry Zhang

“Flipbooks: presenting incremental, side-by-side, aligned code-output evolution”

“Shallow Fakes: Assessing the potential for spoofing and faking in data visualization and what to do about it”

“Reputation, participation, and compliance on the UN Security Council”

“How much do *fake* international obligations matter? Testing false-positive rates in dyadic difference-in-difference designs using synthetic interventions”

**Recent Talks and Conference Presentations**

“ggdms: Toward a viz- and code-first hitchhikers guide to dimensionality reduction”, Fall 2026 CO-WY Chapter meeting of the ASA

“Who are the ggplot2 extenders and how to become one?”, Posit Conference, September 2025.

“Who are the ggplot2 extenders and how to become one?”, Joint Statistical Meeting, American Statistical Association, August 2025.

“What the ggplot2 4.0.0 release means for the ‘Easy Geom Recipes’”, ggplot2 extenders meetup, July 2025.

“Everyday ggplot2 extension: light-weight ‘geom’ extension”, Colorado-Wyoming Chapter, American Statistical Association, April 2025.

“Supporting a new wave of ggplot2 extenders: New points of entry for ggplot2 super-users”, Colorado-Wyoming Chapter, American Statistical Association, October 2023.

“ggcirclepack”, ggplot2 extenders meetup, March 2023.

“Flipbooks: Helping people make sense of code by presenting it step-by-step and side-by-side with its output”, RStudio Conference, January 2020

Max Plank Institute for Biology, Dresden Germany, December 2019.

“Is it time to rethinking how we teach the grammar of graphics with ggplot2?”, RLadies Denver, November 2019

“Toward a reproducible workflow”, Korbel PhD Student Professionalization Series, October 2019

“A ggplot2 grammar guide”, Technische Universität, Dresden, Germany, August 2019 / The Max Planck Institute for Biology, Dresden July 2019

“Shallow fakes: Assessing the potential for spoofing and faking in data visualization and what to do about it”, Korbel School of International Studies Research Seminar, May 2019

“Much Obligated: Reputation, Participation, Compliance, and the UN Security Council”, Political Methodology Conference, 2018

“RI for IR (Randomization Inference in International Relations Research)”, Lorentz Center, Leiden University, 2018

“How Much Does Fictitious International Law ‘Matter’?”, with Brian Gaines, American Political Science Association, 2017

**Languages**

English — native, Spanish — fluent, Portuguese — fluent, German — intermediate

**Community  
Activities**

Member, Speaker *R Users Group Denver*, since 2018

Co-founder *RLadies* Denver, 2019

Choir member *The Spirituals Project* of Denver, 2018

English language tutor *Nachhilfe GBZ Emmaus* Dresden, 2018

Soloist, Small Ensemble Organizer/Performer *First Mennonite Church of Urbana*  
2012 - 2016

Vocals, *Bate Calado* Musica Popular Brasileira, 2009-2012