

SHANNON M. PILEGGI, PHD



EDUCATION

2012
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2005

2005
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2001

- **PhD and MS, Biostatistics**

Emory University

📍 Atlanta, GA

- **BA, Mathematics and Hispanic Studies**

East Carolina University

📍 Greenville, NC



PROFESSIONAL EXPERIENCE

current
|
2020

2020
|
2019

2018
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2015

- **Senior Statistician**

Adelphi Research

📍 Doylestown, PA

- Develop an internal R package to streamline routine operations and analyses.
- Design, build, and improve modeling methods and tools for branded solutions, including re-imagine excel tools to R shiny apps.
- Guide teams through the research lifecycle in design, analysis, and reporting of actionable insights.
- Co-lead an internal R Learning Community across the US and UK to establish an extended analytics team with competencies in data wrangling, visualization, and regression analysis.

- **Statistician**

Adelphi Research

📍 Doylestown, PA

- **Assistant Professor, Statistics Department**

California Polytechnic State University

📍 San Luis Obispo, CA

- Developed courses for diverse audiences, instructing topics in statistical programming in SAS and R, and advanced statistical modeling.
- Synthesized complex data analytics concepts and engaged students daily through clear graphical, written, oral, and video presentations.
- Supervised 8 undergraduate research projects in various topics including machine learning, spatial statistics, and text analytics; one resulted in an R package published to CRAN.
- Secured \$489K in funding through successful grant proposals to publish original research papers.

CONTACT

📍 Doylestown, PA

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🔗 pipinghotdata.com
🐦 [PipingHotData](#)
🔗 github.com/shannongpileggi
🔗 linkedin.com/in/shannon-m-pileggi

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TECHNICAL

R/RStudio

R Markdown

R Shiny

R tidyverse

GitHub / git

SAS

My career spans academic research, teaching, and corporate settings. For any audience, I am passionate about distilling complex data into informative visualizations and plain language.

Last updated on 2021-08-16.

2015
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2012

- **Lecturer and Director of Undergraduate Studies, Institute for Quantitative Theory and Methods**
Emory University 📍 Atlanta, GA
 - Developed and instructed a pilot college-wide introductory statistics course; expanded enrollment from 400 to 1,000+ students annually.
 - Mentored and managed 16 teaching assistants per semester in R programming, teaching techniques, and statistical content.
 - Invited speaker to various departments for expertise in teaching technologies, including classroom capture, personal response systems, and learning management systems.
 - Collaborated with faculty in the biological and social sciences to analyze data, synthesize results, and write manuscripts.

2010
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2007

- **Statistician**
Centers for Disease Control and Prevention 📍 Atlanta, GA
 - Co-authored nine interdisciplinary journal articles in the areas of national malaria reporting systems, lymphatic filariasis, entomologic monitoring, and other vector-borne diseases.
 - Translated complex data for scientific audiences, creating compelling supporting data visualizations, tables of results, and written explanations.
 - Fostered robust collaboration in dispersed and traditional work environments, providing statistical support and programming assistance online and on-site to field staff in Kenya and Guatemala.
 - Developed novel methods for study design in the absence of an existing protocol, including corrections for uncertainty in group membership, leading to published results and shareable SAS macros.

TALKS

2021
2020

- **Meet-up: Growing into the R community¹**
R-Ladies Miami
- **Workshop: Your first R package in 1 hour²**
R-Ladies Philly

SELECT BLOG POSTS

2021
2020
2020

- **From gmailr to the Google Books API³**
- **Your first R package in 1 hour⁴**
- **A job interview presentation inspired by the R community⁵**

I enjoy both technical and conversational writing!

PUBLICATIONS

2018

- **Improving Statistical Communication in Statistical Computing Courses⁶**
International Conference on Teaching Statistics
 - Author(s): Glanz, H. and Pileggi, S.

- 2017 ● **Landscape and Environmental Influences on Mycobacterium ulcerans Distribution among Aquatic sites in Ghana⁷**
PLoS ONE
• Author(s): Pileggi, S., Williamson, H., Clennon, J., Whitney, E., Ampadu, A., Opare, W., Benbow, E., Merritt, R., McIntosh, M., Kimbirauskas, R., Small, P., Boakye, D., Quaye, C., Qi, J., Campbell, L., Gronseth, J., and Waller, L.
- 2017 ● **Many Means to a Mean⁸**
Western Users of SAS Software
• Author(s): Pileggi, S.
- 2014 ● **A classroom project for generation Z⁹**
Chance
• Author(s): Pileggi, S., Stangl, D., and Cetinkaya-Rundel, M.
- 2014 ● **Adult plasticity in the subcortical auditory pathway of the maternal mouse¹⁰**
PLoS ONE
• Author(s): Miranda, J., Shepard, K., McClintock, S., and Liu, R.
- 2014 ● **DataFest suggests future of college education¹¹**
The Emory Wheel
• Author(s): Pileggi, S.
- 2014 ● **The real secret to genius? Reading between the lines.¹²**
Chance
• Author(s): Pileggi, S., Stangl, D., and Cetinkaya-Rundel, M.
- 2011 ● **Correction for two-group sample size calculation with uncertain group membership.¹³**
Journal of Data Science
• Author(s): Lin, H., McClintock, S., and Williamson, J.
- 2011 ● **Comparison of insecticide-treated nets and indoor residual spraying to control the vector of visceral leishmaniasis in Mymensingh District, Bangladesh.¹⁴**
American Journal of Tropical Medicine and Hygiene
• Author(s): Chowdhury, R., Dotson, E., Blackstock, A., McClintock, S., Maheswary, N., Faria, S., Islam, S., Akter, T., Kroeger, A., Akhter, S., and Bern, C.
- 2010 ● **Anti-folate drug resistance in Africa: meta-analysis of reported dihydrofolate reductase dhfr and dihydropteroate synthase dhps mutant genotype frequencies in African Plasmodium falciparum parasite populations.¹⁵**
Malaria Journal
• Author(s): Dridaran, S., McClintock, S., Syphard, L., Herman, K., Barnwell, J., and Udhayakumar, V.

- 2010 ● **First evidence of spatial clustering of lymphatic filariasis in an Aedes polynesiensis endemic area.¹⁶**
 Acta Tropica
 - Author(s): Joseph, H., Moloney, J., Maiava, F., McClintock, S., Lammie, P., and Melrose, W.
- 2010 ● **A community-based study of factors associated with continuing transmission of lymphatic filariasis in Leogane, Haiti.¹⁷**
 PLoS Neglected Tropical Diseases
 - Author(s): Boyd, A., Won, K., McClintock, S., Donovan, C., Laney, S., Williams, S., Pilotte, N., Streit, T., Beau de Rochars, M., and Lammie, P.
- 2009 ● **Xenomonitoring of Wuchereria bancrofti and Dirofilaria immitis infections in mosquitoes from American Samoa: Trapping considerations and a comparison of polymerase chain reaction assays with dissection.¹⁸**
 American Journal of Tropical Medicine and Hygiene
 - Author(s): Chambers, E., McClintock, S., Avery, M., King, J., Bradley, M., Schmaedick, M., Lammie, P., and Burkot, T.
- 2009 ● **Comparison of National Malaria Surveillance System with the National Notifiable Diseases Surveillance System in the United States.¹⁹**
 Journal of Public Health Management Practice
 - Author(s): Hwang, J., McClintock, S., Kachur, S., Slutsker, L., and Arguin, P.
- 2009 ● **Macrophage migration inhibitory factor is associated with mortality in cerebral malaria patients in India.²⁰**
 BioMed Central Research Notes
 - Author(s): Jain, V., McClintock, S., Nagpal, A., Dash, A., Stiles, J., Udhayakumar, V., Singh, N., and Lucchi, N.
- 2009 ● **Dry season production of filariasis and dengue vectors in American Samoa and comparison with wet season production.²⁰**
 American Journal of Tropical Medicine and Hygiene
 - Author(s): Lambdin, B., Schmaedick, M., McClintock, S., Roberts, J., Gurr, N., Marcos, K., Waller, L., and Burkot, T.

🔗 LINKS

- 1: <https://www.pipinghotdata.com/talks/2021-04-22-growing-into-the-r-community/>
- 2: <https://www.pipinghotdata.com/talks/2020-10-25-your-first-r-package-in-1-hour/>
- 3: <https://www.pipinghotdata.com/posts/2020-08-30-a-job-interview-presentation-inspired-by-the-r-community/>
- 4: <https://www.pipinghotdata.com/posts/2020-10-25-your-first-r-package-in-1-hour/>
- 5: <https://www.pipinghotdata.com/posts/2020-08-30-a-job-interview-presentation-inspired-by-the-r-community/>
- 6: https://iae-web.org/icots/10/proceedings/pdfs/ICOTS10_3F1.pdf
- 7: <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0176375>

- 8: https://www.lexjansen.com/wuss/2017/54_Final_Paper_PDF.pdf
- 9: <https://chance.amstat.org/2014/11/classroom/>
- 10: <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0101630>
- 11: <https://emorywheel.com/datafest-suggests-future-of-college-education/>
- 12: <https://chance.amstat.org/2014/02/classroom-27-1/>
- 13: https://scholar.google.com/scholar?hl=en&as_sdt=0%2C47&q=Correction+for+two-group+sample+size+calculation+with+uncertain+group+membership&btnG=
- 14: <https://www.ajtmh.org/content/journals/10.4269/ajtmh.2011.10-0682>
- 15: <https://malariajournal.biomedcentral.com/articles/10.1186/1475-2875-9-247>
- 16: <https://www.sciencedirect.com/science/article/pii/S0001706X10002986>
- 17: <https://journals.plos.org/plosntds/article?id=10.1371/journal.pntd.0000640>
- 18: <https://www.ajtmh.org/content/journals/10.4269/ajtmh.2009.80.774>
- 19:
https://journals.lww.com/jphmp/Abstract/2009/07000/Comparison_of_National_Malaria_Surveillance_System.12.aspx
- 20: <https://www.ajtmh.org/content/journals/10.4269/ajtmh.2009.09-0115>