

# SHANNON M. PILEGGI, PHD

## EDUCATION

- 2012  
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2005 • **PhD and MS, Biostatistics**  
Emory University Atlanta, GA
- 2005  
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2001 • **BA, Mathematics and Hispanic Studies**  
East Carolina University Greenville, NC

## PROFESSIONAL EXPERIENCE

- current  
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2020 • **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-imagining excel tools to R shiny apps
  - 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.
  - Provide guidance throughout the design, analysis, and reporting lifecycle to assist research teams in producing actionable insights.
- 2020  
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2019 • **Statistician**  
Adelphi Research Doylestown, PA
- 2018  
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2015 • **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

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pipinghotdata.com  
PipingHotData  
github.com/shannonpileggi  
in linkedin.com/in/shannon-m-pileggi

## 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 2021-07-08.*

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 ● **Meet-up: Growing into the R community<sup>1</sup>**  
R-Ladies Miami
- 2020 ● **Workshop: Your first R package in 1 hour<sup>2</sup>**  
R-Ladies Philly

## SELECT BLOG POSTS

- 2021 ● **GGanimating a geographic introduction<sup>3</sup>**
- 2021 ● **From gmailr to the Google Books API<sup>4</sup>**
- 2020 ● **Your first R package in 1 hour<sup>5</sup>**

## PUBLICATIONS

- 2018 ● **Improving Statistical Communication in Statistical Computing Courses<sup>6</sup>**  
International Conference on Teaching Statistics
  - *Author(s):* Glanz, H. and Pileggi, S.

I enjoy both technical and conversational writing!

- 2017 ● **Landscape and Environmental Influences on *Mycobacterium ulcerans* Distribution among Aquatic sites in Ghana<sup>7</sup>**  
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 Mean<sup>8</sup>**  
Western Users of SAS Software  
• *Author(s)*: Pileggi, S.
- 2014 ● **A classroom project for generation Z<sup>9</sup>**  
Chance  
• *Author(s)*: Pileggi, S., Stangl, D., and Cetinkaya-Rundel, M.
- 2014 ● **Adult plasticity in the subcortical auditory pathway of the maternal mouse<sup>10</sup>**  
PLoS ONE  
• *Author(s)*: Miranda, J., Shepard, K., McClintock, S., and Liu, R.
- 2014 ● **DataFest suggests future of college education<sup>11</sup>**  
The Emory Wheel  
• *Author(s)*: Pileggi, S.
- 2014 ● **The real secret to genius? Reading between the lines.<sup>12</sup>**  
Chance  
• *Author(s)*: Pileggi, S., Stangl, D., and Cetinkaya-Rundel, M.
- 2011 ● **Correction for two-group sample size calculation with uncertain group membership.<sup>13</sup>**  
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.<sup>14</sup>**  
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.<sup>15</sup>**  
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.<sup>16</sup>**  
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.<sup>17</sup>**  
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.<sup>18</sup>**  
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.<sup>19</sup>**  
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.<sup>20</sup>**  
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.<sup>20</sup>**  
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://github.com/shannonpileggi/growing-into-r>
- 2: <https://www.pipinghotdata.com/posts/2020-10-25-your-first-r-package-in-1-hour/>
- 3: <https://www.pipinghotdata.com/posts/2021-02-15-gganimating-a-geographic-introduction/>
- 4: <https://www.pipinghotdata.com/posts/2021-01-11-from-gmailr-to-the-google-books-api/>
- 5: <https://www.pipinghotdata.com/posts/2020-10-25-your-first-r-package-in-1-hour/>
- 6: [https://iase-web.org/icots/10/proceedings/pdfs/ICOTS10\\_3F1.pdf](https://iase-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](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=](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](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>