Elevating frontline epidemiology

Training, tools, and support: Analytics with R

A nonprofit organization

www.appliedepi.org
contact@appliedepi.org
A COMPLETE ECOSYSTEM OF R TRAINING AND SUPPORT

Practical training courses with epidemiologist instructors

Synchronous (virtual) with 1-on-1 tutoring and follow-up support
1,200 epis at 350 agencies have taken our 40-hour intro course, including at US CDC, WHO, MSF, national & local agencies, & FETPs

"I’ve taken several R trainings - this is the BEST!"
- US CDC, Epidemic Intelligence Service (EIS) officer

24/7 multilingual R Support Desk

Timely calls with epidemiologist R technicians - used by WHO, MSF, Uganda Ministry of Health for Ebola response, and hundreds more.

"Help that was fast and high quality - this was a life saver!"
- Epidemiologist, Doctors without Borders (MSF)

The grassroots movement leading public health’s transition to R

Meet our team of 175 applied epidemiologists with R expertise in 50 countries worldwide.

We deliver training every day:
High-impact, high-quality, and at-scale.

"By epis, for epis" - we built this ecosystem so that R adoption is led by ground-level users.

The gold standard reference book

For 650,000 users, our FREE Epi R Handbook is the “go-to” with 4,000 daily views

“A one-stop shop. The epidemiologist’s greatest companion.”
- Epidemiologist, Nigeria CDC

Available in 8 languages!

Enroll in private or public cohorts; or try our free online tutorials

Contact us for details. Also, join thousands in our FREE Q&A forum!

Maximize your skills
Practice and apply
Build a strong foundation
40-hour synchronous introductory course
Reference materials and tools
R packages and templates for public health
The Epidemiologist R Handbook
Asynchronous interactive tutorials
Community Forum & R Help Desk
Support at any stage

Available in English, French, Portuguese, Spanish, Swahili, Ukrainian & more...
Practical R for day-to-day tasks, and 1-on-1 meetings with epidemiologist instructors

"The best online training I have ever had"
- UK health agency epidemiologist

"Having an epidemiologist who has experience in the field, who has passed through those challenges, sit down with you ...it makes learning R simple."
- Epidemiologist, African Field Epidemiology Network (AFENET)

CURRICULUM DETAILS

Duration: 40 hours
(21-hour version available with Modules 1-6)
Format: Synchronous, virtual or in-person
10 modules of 3.5 hours each
Languages: English, French, Spanish, Swahili, Ukrainian, Russian & others
Activities: Live lecture and coding demos, exercises using outbreak case studies, immediate feedback with 1-on-1 meetings
Post-course: 24/7 R Support Desk
Data used: Case linelists, lab, & hospital data
Eligibility: Comfort using Excel and exposure to software like SPSS or EpilInfo; coding experience helpful but not required

Pre-course - Installation support
1-on-1 calls to troubleshoot installation of R, RStudio, and R packages

Module 1 - Basic R syntax (3.5 hours)
R coding basics, use of RStudio projects, importing datasets

Module 2 - Data cleaning (3.5 hours)
Clean a case linelist with "tidyverse" functions using "pipes" to handle rows, columns, dates, duplicates, and to recode values

Module 3 - Data cleaning part 2 (3.5 hours)
More complex data cleaning: handle missing values, logical recoding, age categories, and applying changes across columns

Module 4 - Summary tables (3.5 hours)
Group and summarise with the janitor, dplyr, and gtsummary packages; add appealing formatting with flextable package.

Module 5 - Data visualisation (3.5 hours)
Use the ggplot2 package to make plots of all types; adjust colors, scales, themes, highlights, dynamic labels and captions

Module 6 - Automated reports (3.5 hours)
Learn R markdown to generate Word, PDF, and HTML reports with figures and plots that update automatically

Module 7 - Transforming data (3.5 hours)
Join datasets together; pivot data structure; ordinal factors

Module 8 - Public health plots (3.5 hours)
The nuances of epi week calculations and producing epidemic curves, heat plots, demographic pyramids; a GIS demo

Module 9 - COVID-19 case study (3.5 hours)
Make an outbreak automated report on a new dataset

Module 10 - Getting help and next steps (3.5 hours)
Apply your R skills to your work project; how to get help from the community forum by posting a reproducible example

Post-course - 24/7 R Support Desk
Each participant receives a 1 hour coupon to book 1-on-1 calls with an instructor via our 24/7 R Support Desk, for help applying R to their work projects. Coupon valid for 12 months.
programs to build a community of public health R users.

The methodology is top notch and I learned more with this online course than with other face-to-face courses.

100 times better than what was offered during my MSc at a top-tier university!

In a world so inequitable, R is a great equaliser. I feel empowered by this training.

Full workflow integration, including maps. I couldn’t have done this in SAS!

One of the most applicable, intense trainings I’ve done. I can use this!

The R Consortium promotes the R language and develops the technical and social infrastructure required for the R ecosystem. They support Applied Epi’s programs to build a community of public health R users.

The World Health Organization (WHO), Doctors without Borders (MSF), European CDC (ECDC), International Federation of the Red Cross (IFRC), Resolve to Save Lives (RSL), Vital Strategies, Children, US CDC Central Asia Office, The CDC Foundation

Albania, Algeria, Angola, Armenia, Austria, Belgium, Belize, Benin, Bermuda, Burundi, Cambodia, Cameroon, Canada, Cayman Islands, Congo, Democratic Republic, Croatia, Denmark, Djibouti, Dominican Republic, Ireland, Egypt, Ethiopia, Fiji, Finland, France, Georgia, Germany, Ghana, Greece, Guatemala, Guinea, Guyana, Honduras, Indonesia, Ireland, Italy, Kazakhstan, Kenya, Kosovo, Kyrgyzstan, Latvia, Lebanon, Liberia, Libya, Luxembourg, Macedonia, Malaysia, Malta, Mexico, Moldova, Montenegro, Mozambique, Myanmar, Namibia, Netherlands, Nigeria, North Macedonia, Norway, Pakistan, Palestine, Panama, Peru, Philippines, Poland, Portugal, Romania, Rwanda, Saint Helena, Ascension Island, and Tristan da Cunha, Saudi Arabia, Serbia, Slovenia, South Africa, Spain, Sweden, Tajikistan, Thailand, Togo, Tunisia, Turkey, Turks and Caicos Islands, Uganda, Ukraine, United Kingdom, United States (CDC), Uzbekistan, Viet Nam, Virgin Islands, British, Zambia.

Field Epidemiology Training Programs (FETPs): The African Field Epidemiology Training Network (AFENET), United States Epidemic Intelligence Service (EIS), European CDC Fellowship Programme (EPIET/EUPHEM), The Mediterranean and Black Sea Programme for Intervention Epidemiology Training (MediRIET), Central Asia Field Epidemiology Training Program (FETP), Central America FETP, United Kingdom, Nigeria, Liberia, The Gambia, Zambia, Rwanda, Namibia, Peru, Philippines, Saudi Arabia

North America Subnational: California DPH, New York DOH, Colorado DPHE, Arizona DOH, Oregon Health Authority, Kentucky DPH, Maryland DOH, Alaska DHSS, Hawaii DOH, Illinois DPH, Indiana DPH, Kansas DHE, Massachusetts DPH, Michigan DHHS, New Jersey DOH, Pennsylvania DOH, Tennessee DOH, Virginia DOH, Wisconsin DHS, District of Columbia (D.C.) DOH, US Virgin Islands DOH, Fraser Health (BC), New York City DOHMH (NY), Los Angeles County (CA), Alameda County (CA), San Diego County (CA), Sonoma County (CA), Santa Cruz County (CA), Riverside County (CA), Calaveras County (CA), San Mateo County (CA), Merced County (CA), Pasadena County (CA), Solano County (CA), Long Beach (CA), Trinity County (CA), Salt Lake County (UT), Maricopa County (AZ), Seattle & King County (WA), Spokane Regional Health District (WA), Southern Nevada Health District (NV), St. Louis County (MO), Madison & Dane County (WI), Quin County (MN), Travis County (TX), Tarrant County (TX), Washington County (OR), East Shore District (MD), El Dorado County (CO), Genesee County (MI), Grand Traverse County (MI), Ottawa County (MI), Ingham County (MI), Barry-Benton District (MI), Jackson County (MI), Fairfield County (CT), Jefferson County (OR), Johnson County (KS), Mexico City Public Health Services (Mexico), Island Health (Vancouver Island), Indigenous Services Canada, Navajo Area Indian Health Service, Southern Plains Tribal Epi Center (SPTHB)

Other Subnational: Including District Hospitals in Gisenyi, Nyanzo, and Gihunda (Rwanda), Kampala Capital City Authority (Uganda), Greater Accra (Ghana), Libyan cities of Loja, Rivercess, and Nimba (Liberia), Ukrainian Oblasts of Kyiv, Zhytomyr, Khmelnytskyi, Odesa, Vinnytsia, Chernivtsi, Ivano-Frankivsk, Ternopil, Chernihiv (Ukraine), Northern Territories (Australia), Department of Health (Karalpakist, Uzbekistan), Andijan AIDS Center (Uzbekistan), Almaty City AIDS Center (Kazakhstan), Dushanbe City (Tajikistan), Osh (Kyrgyzstan), Sinds (Pakistan), Balochistan (Pakistan), Kala Azar (Iran, Pakistan), Muzaffarpur (Pakistan), Bihar (Pakistan), Punjab (Pakistan), Rawalpindi (Pakistan), Lahore (Pakistan), Karachi (Pakistan), Peshawar (Pakistan), Muzaffarak (Pakistan), Hyderabad (Pakistan), Bals City (Philippines), Santa Marcela (Philippines), Metro Manila (Philippines), Sakan District (Philippines), Metro Mango (Philippines), Metro Manila (Philippines), Sakan District (Philippines), Metro Mango (Philippines), Metro Manila (Philippines), Sakan District (Philippines), Metro Mango (Philippines), Metro Manila (Philippines), Baku District (Azerbaijan), Baku District (Azerbaijan),orous of Indonesia), Samarinda Health District (Indonesia), Yogyakarta City (Indonesia), Public Health Scotland (UK), Public Health Wales (UK), Ústí的技术, Bawaria (Germany), Stuttgart (Germany), Baden-Wuerttemberg (Germany), Mexico, Poland, Portugal, Romania, Rwanda, Saint Helena, Ascension Island, and Tristan da Cunha, Saudi Arabia, Serbia, Slovenia, South Africa, Spain, Sweden, Tajikistan, Thailand, Togo, Tunisia, Turkey, Turks and Caicos Islands, Uganda, Ukraine, United Kingdom, United States (CDC), Uzbekistan, Viet Nam, Virgin Islands, British, Zambia.

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ADVANCED R COURSES

Contact us for the availability of these courses:

- Introduction to GIS with R
- Statistics and regression with R
- Advanced R Markdown: Looping reports and making dashboards and slides
- Task iteration and functional programming
- Git and GitHub with R: Collaboration and version control
- Relational database interactions with R
- Survey analysis
- Introduction to Shiny dashboards
- Time series analysis with R

Duration: Each workshop consists of 7 hours of instruction (two half-day sessions)

Format: Remote or in-person

Eligibility: Participants must have R skills at least equivalent to our intro course

“This course is superbly structured, focused, and delivered by experienced epidemiologists to provide context to the code.”

- Epidemiologist, Public Health Wales

Bookings: Available for private cohorts (minimum 6 participants)
Cohorts for the general public are posted on our website.

Price per seat: US $450 - Contact us for discount eligibility*

Compare us to others
Our advanced courses are more affordable and are taught by frontline practitioners.

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<th>Applied Epi</th>
<th>LSHTM</th>
<th>Jumping Rivers (for profit)</th>
<th>RITME (for profit)</th>
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</thead>
<tbody>
<tr>
<td>Daily price per person*</td>
<td>$450</td>
<td>$485</td>
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*7 hour day. Prices sourced from institution websites as of 11/2023. Contact institutions directly for official quotes.

CONTACT US:

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