OUTLINE

- Department Overview
- Faculty & Research
- Degrees Programs
- Academic Overview
- Student Life
- Employment
- Applying to EH
- Resources
DEPARTMENTAL OVERVIEW
ACADEMIC BUILDINGS

Claudia Nance Rollins (CNR)

- Environmental Health
- Epidemiology
- EH Labs
- Global Health

Grace Crum Rollins (GCR)

- Biostatistics
- Behavioral Science and Health Education
- Health Policy & Management
• Explore how human health is influenced by our interactions with the environment – micro to macro

• Promote a healthy environment for all people – global to local

• Prepare students to take the challenges of the future
  • Understanding interactions of exposures with human genome
  • Projecting impacts of climate and other global changes
  • Promoting sustainable stewardship of resources, e.g., ensuring safe air and water
SUPPORT & ADVISING

- All incoming students are assigned
  - EH Faculty Advisor
  - Associate Director of Academic Programs (ADAP)

- Second Year Student Mentor

- Optional professional mentor through career services
FUNDING OPPORTUNITIES

- Merit Scholarship
- PH Mission Driven Scholarships
- Financial Aid Award
- Rollins Earn & Learn (REAL) Award
- Global Field Experience (GFE) Award
- Global Health Institute (GHI) Award
- Environmental Health Specific Opportunities
  via EH-related organizations like EPA, National Science Foundation, U.S. Dept. of Energy
FACULTY & RESEARCH
20 total faculty, with 2 on-going searches

EH faculty have PhDs in:
- Environmental Health
- Environmental Science
- Environmental Engineering
- Epidemiology
- Biology
- Chemistry
- Medicine (MD)
- Law (JD)

Most have joint appointments across campus
GENERAL RESEARCH AREAS

Pesticides & Industrial Contaminants

Air Pollution & Global Climate Change

Water, Sanitation, & Hygiene (WASH) and Infectious Disease Ecology
...many more EHS faculty from across campus, plus EH department adjunct faculty as additional resources
RESEARCH AREAS

- Air and Water Pollution
- Infectious Disease Ecology
- Pesticides
- Water, Sanitation, and Hygiene
- Environmental Justice
- Oceans and Human Health

- Neurologic Outcomes
- Endocrine Disruptors
- Gene-Environment Interactions
- Built Environment
- Global Climate Change
- Children’s Environmental Health
STUDIES OF WATER, SANITATION, AND HYGIENE (WASH)
STUDIES OF AIR POLLUTION AND HEALTH
STUDIES OF OCCUPATIONAL AND COMMUNITY EXPOSURES

Perfluorooctanoic acid
STUDIES OF AGRICULTURAL PRACTICES AND THEIR IMPACT ON HUMAN HEALTH
STUDIES OF DISEASE PATHOGENESIS

Dopamine levels in a normal and a Parkinson's affected neuron.

Control  Parkinson's

Neurodegeneration
PROJECT HIGHLIGHT: HOUSEHOLD AIR POLLUTANT INTERVENTION NETWORK (HAPIN)

- Multi-institution intervention field trial for household air pollution, exposure, and health outcomes
- Assessing impacts of a cook stove intervention at sites in four countries:
  - India
  - Guatemala
  - Peru
  - Rwanda

- $30 million
- Jointly Funded by NIH and the Bill and Melinda Gates Foundation
- Study Lead – Dr. Thomas Classen, EH Professor
- Coordinated with Johns Hopkins and Colorado State University
In the past 10 years, EH has been central in establishing:

- **SCAPE** (Southeastern Center for Air Pollution & Epidemiology)
  - Umbrella center for air pollution and health studies
- **CGSW** (Center for Global Safe WASH)
  - Convener for multiple studies of common interest
- **GeoHealth Hub** (Peru)
  - EH training and research; research focused on indoor air - cardiovascular health; outdoor air pollution in Lima, climate change in Peru
- **HERCULES** (Health and Exposome Research Center: Understanding Lifetime Exposures)
- **C-CHEM²** (Center for Children's Health, the Environment, the Microbiome and Metabolomics)
- **CHEAR** (Children's Health Exposure Analysis Resource)
- **HAPIN** (Household Air Pollutant Intervention Network)
PARTNERSHIPS

- Centers for Disease Control and Prevention (CDC)
  - National Center for Environmental Health
  - Agency for Toxic Substances and Disease Registry (ATSDR)
  - National Institute for Occupational Safety and Health (NIOSH)
- Environmental Protection Agency
- American Cancer Society
- Georgia Division of Public Health
- Georgia Environmental Protection Division
- Georgia Climate Project
DEGREE PROGRAMS
DEGREES OFFERED

- Environmental Health (MPH)
- Global Environmental Health (MPH)
- Environmental Health-Epidemiology (MSPH)
- 5-year program for BS Environmental Science and Environmental Health (MPH)
- Dual-degrees with MPH include: MD, MBA, JD, MSN, and MMSC (Physician Assistant)
- PhD in Environmental Health Sciences
GAIN CRITICAL SKILLS IN:

- Exposure Science
- Risk Assessment
- Hazard Recognition
- Toxicology
- Biomarkers
- Environmental Policy
- Epidemiology
- Disease Ecology
- Implementation Science
- Program evaluation
ACADEMIC OVERVIEW
PREREQUISITES

- Course Work:
  - **Required**: chemistry, biology
  - Recommended: calculus, statistics, organic chemistry, physiology

- Global Environmental Health Applicants:
  - Recommended: global experience
CLASSES

- **500 – Level Foundation Courses**
  - EPI, BIOS, BSHE, HPM, GH

- **Required EH Courses**
  - Toxicology
  - Exposure Science
  - Risk Assessment
  - Policy
  - Practice

- **PUBH – Public Health Foundation**

- **GEH MPH**
  - GH 501 – evidence based global health policies, programs and research
  - Methods Option
  - GH/EH Electives

- **EH-EPI MSPH**
  - Advanced BIOS and EPI
  - Programming in SAS
  - Application of EPI Concepts
  - EPI Modeling
CURRICULUM

- Course Work:
  - MPH: 42 hours
  - MSPH: 48 hours
  - Dual-Degrees: 32 hours in RSPH; 10 shared from other program

- EH Courses and Sample Syllabi:
  [www.sph.emory.edu/academics/courses/eh-courses/index.html](http://www.sph.emory.edu/academics/courses/eh-courses/index.html)
PROFESSIONAL DEVELOPMENT

PUBH 500 – Introduction to Public Health
- Online, self-paced module (approximately 45 minutes not including assignments)
- Complete before Fall semester classes start

PUBH 501 – Interprofessional Team Training
- Save the Date – Friday, November 1, 2019
- Noon – 5pm
- One time event

PUBH 502 – Public Health Professional Development
- Online, self-paced modules (approximately 3 hours not including assignments)
- Complete before Fall semester classes start
- Sign up for a one time, 2.5 hour on-campus workshop – Spring 2020
APPLIED PRACTICE EXPERIENCE (APE)

• 200-400 hours
• Paid or unpaid
• Wide-range of opportunities
• Resources
  • RSPH Career Services
  • Rollins Opportunity Link
  • Public Health Employment Connection
• Listservs
• Faculty
• Practicum Fairs
• Networking
APE EXAMPLES

- Center for Global Safe WASH
  - Community mapping to establish the size, population, and percent coverage for types of sanitation in 6 communities

- National Center for Environmental Health
  - Public health consequences of disasters

- Youth for Unity and Voluntary Action
  - Air quality in India

- Environment and Population Research Center
  - Pesticides and safe practices among farmers in rural Bangladesh

- Environmental Protection Agency, Region IV
  - Climate change information clearinghouse
CULMINATING EXPERIENCE

- Thesis or Capstone
  - Thesis required for MSPH
- Culmination of what you have learned in the classroom
- Often part of practicum experience
- Rollins faculty serve as advisors
- Capstone mentors are from the community
CAMPUS ORGANIZATIONS

- Climate@Emory
- Rollins Environmental Health Action Committee (REHAC)
- Rollins Student Government Association
- Emory Global Health Organization (EGHO)
- Center for Global Safe WASH
- Graduate Sustainability Group
- Rollins Outdoor Club
- Educational Garden Project
- Global Growers
- Emory’s Office of Sustainability Initiatives
- Bike Emory & Spokes Council
- Start your own club!
WELCOME TO ATLANTA!

- Beltline & Ponce City Market
- North Georgia Mountains
- Piedmont Park
- Fox Theater
- Savannah & the Georgia Coast
- Georgia Aquarium
Employment Status (N = 25)

This chart indicates the employment status of the graduates’ class of 35 within 12 months post-graduation from the EH department.

- 71% Employed Full-time Public Health
- 11% Actively Seeking Work
- 6% Continuing Education
- 6% Employed Part-time Public Health
- 3% Not Seeking Work/Education
- 3% Employed Non-Public Health
Employment by Sector (N = 25)

Of the 25 reporting graduates that secured employment within 12-months post-graduation, 40% reported being employed with the government (state, local, federal) agency.

- 40% Government (State, Local, Federal)
- 24% University or Research (Academic)
- 16% Nonprofit/NGO
- 12% Hospital or Health Care Facility
- 4% Other
- 4% Proprietary Organization

View the full report: https://www.sph.emory.edu/careers/employment-status/index.html
APPLYING TO EH
DIVERSE BACKGROUNDS & MAJORS

- Biology
- Chemistry
- Envt. Studies
- English
- Global Studies
- Public Health
- Theater
- Neuroscience
- Toxicology
- Bioengineering
- Psychology
- Spanish
- Anthropology
WHAT WE LOOK FOR

• Course work:
  • Required: chemistry, biology
  • Recommended: calculus, statistics, organic chemistry, physiology

• Personal Statement

• Experience/Resume
  • GEH – international experience
  • EH-EPI – strong quantitative skills
  • Address inconsistencies or weaknesses

• Letters of Recommendation
APPLICATION REQUIREMENTS

- Completed & Verified Application with SOPHAS
- Transcripts
- Recommendations
- Standardized Test Scores
- Personal Essay
- Research/Work/Volunteer/Honors
- International Applicants:
  - TOEFL/IELTS scores
  - Financial certificate
- WES Evaluation for Transcripts from non-US Universities
COMPLETE & VERIFIED APPLICATION

- RSPH will only receive applications that have been completed and verified by SOPHAS

- SOPHAS requests 2-6 weeks for verification

- January 5 for Merit Scholarship consideration

- EH will continue to review applications beyond this date
ADDITIONAL RESOURCES
CONNECT WITH US

· Visit our Webpage:
  · http://sph.emory.edu/eh

· Contact:
  Ariadne Swichtenberg
  Associate Director of Academic Programs (ADAP)
  (404) 727-7905, ascarl@emory.edu

· Facebook – @EmoryEnvironmentalHealthRollins
· Instagram – @rollinsenvironmentalhealth
THANK YOU