Q1 **Tenth Annual Conference to Increase Diversity in Mathematical Modeling and Public Health: Hosted by The MIDAS Network Coordination Center in cooperation with the Center for Communicable Disease Dynamics (CCDD) at Harvard T. H. Chan School of Public Health. Conference Dates: Friday, January 21 - Sunday, January 23, 2022 Conference Location: Virtual** This conference is for undergraduate students or students in a post baccalaureate program from underrepresented groups who have an interest in public health and mathematical modeling of infectious diseases. The conference will introduce students to modeling methods and familiarize students with modeling resources of the MIDAS Network.

Infectious disease modeling is an exciting field whose practitioners study the mechanisms by which diseases spread, to predict future outbreaks, track current outbreaks, and evaluate methods to control an epidemic. Currently, MIDAS members are using infectious disease modeling in the fight against the COVID-19 pandemic, including predicting the trajectory of the disease and communicating findings to policymakers and the public about optimal mitigation strategies. Hear from some of the top experts in the field and their experiences during the pandemic! This conference will include: Scientific talks from MIDAS researchers and graduate students who use infectious disease epidemiology and mathematical modeling to study infectious diseases; Hands-on sessions* where students will have the opportunity to practice the concepts and skills they are learning using MIDAS resources, and; Professional development and networking opportunities *Depending on your background, hands-on sessions will be in R, Excel, or SAS.

Students must satisfy **all** the requirements below.

Applicants must:

Be U.S. citizens, U.S. nationals or permanent residents of the U.S.
Be undergraduate students or students in a post-baccalaureate program
Be from an underrepresented group as defined by the NIH, which includes:
Racial and ethnic groups that are underrepresented, such as:
Blacks or African Americans
Hispanics or Latinos/as
American Indians or Alaskan Natives
Native Hawaiians and other Pacific Islanders
Students with disabilities
Students from disadvantaged backgrounds
Have an interest in public health or infectious disease epidemiology

There is no registration fee. Costs are covered by the MIDAS Coordination Center, the Harvard CCDD, and the participating instructors.

Application Deadline: November 26, 2021 at 11:59 PM EST Early applications are strongly encouraged. Applications will be reviewed and accepted the week after the deadline. We give

priority to those students who have not attended the conference before; however, we will still consider your application if you are a past attendee.

Survey questions will prompt you to provide: Contact Information, Demographic Information, Academic Information You will be asked to upload (in an MS Word doc/docx or PDF):

1) Resume

2) Personal Statement (1-2 pages) Note: The one-page personal statement should describe your academic and professional interests, your interest in public health, your experience and strengths in quantitative sciences and/or mathematics/mathematical modeling, and why attending this conference will be beneficial to your academic pursuits

3) Verification form 2021 Note: an advisor or professor must verify that you are an undergraduate student or student in a post-baccalaureate program, and that you are from an underrepresented group. You can download the verification form by clicking here. **About:** The MIDAS (Modeling of Infectious Disease Agent Study) Network is a collaboration of researchers who develop computational models of the interactions between infectious agents and their hosts, disease spread, prediction systems and response strategies. The tools and methods developed by the modelers can be useful to a variety of stakeholders who want to better understand emerging infectious diseases.

If you have any questions, please contact Ms. Jessica Kerr with the MIDAS Coordination Center at jek118@pitt.edu or Ms. Tiggy Menkir with CCDD at tmenkir@hsph.harvard.edu.

Q2 To leave a question unanswered, please write N/A.

- First Name (1) _____
- Last Name (2) _____
- Preferred Name (3) _____
- Permanent/Personal Email Address (4) _____
- College/University Email Address (5) _____

Q3 Have you previously attended this conference? If so, which years? (Select all that apply.)

- [ ] 2021 (10)
- [ ] 2019 (9)
- [ ] 2018 (1)
- [ ] 2017 (2)
- [ ] 2016 (3)
- [ ] 2015 (4)
- [ ] 2014 (5)
- [ ] 2013 (6)
- [ ] 2012 (7)
- [ ] ⊗ I have not previously attended this conference. (8)

Q4 College/University mailing address (where you receive mail during the academic year):

- Street 1 (1) _____
- Street 2 (2) _____
- City (3) _____
- State (4) _____
- Zipcode (5) _____

Q5 Permanent Address (optional)

- Street 1 (1) _____
- Street 2 (2) _____
- City (3) _____
- State (4) _____
- Zipcode (5) _____

Q6 Phone number, with area code. If you have no number for a particular option, type "N/A". Please follow the following format example: 412-123-4567

- Cell (1) _____
- Permanent/Home (2) _____

Q7 Date of Birth (MM/DD/YYYY)

_____

Q8 Gender:

- ○ Cis Male (1)
- ○ Cis Female (2)
- ○ Trans Male (3)
- ○ Trans Female (4)
- ○ Non-binary (5)
- ○ Other (6) _____
- ○ Prefer not to disclose (7)

Q9 Education:

- ○ Undergraduate Institution (1)
  _____
- ○ Major (2) _____
- ○ Minor (if applicable) (3) _____
- ○ Graduation Year (4) _____
- ○ GPA, in Major (if your college does not provide this on your transcript, please calculate it yourself) (5) _____
- ○ GPA, overall (6) _____
- ○ High School Name, City, State (7)
  _____

Q10 Was your High School...

- ○ Public (1)
- ○ Independent/Private (2)
- ○ Charter (3)
- ○ Prefer not to say (4)

Q11 Year in School?

- ○ 1 (1)
- ○ 2 (2)
- ○ 3 (3)
- ○ 4 (4)
- ○ 5+ (5)

Q12 Do you intend to apply to graduate school for a 2021 start?

- ○ Yes (1)
- ○ No (2)

Q13 To what graduate schools do you intend to apply for a 2021 start?

_____

Q14 To what Program(s)/Concentrations(s)?

_____

Q15 Have you been admitted to a graduate school for 2021?

- ○ Yes (1)
- ○ No (2)

Q34 The following questions are to help us understand where you are in your education to best plan the activities in the conference. They will not determine whether or not you are accepted.

Q32 What is your level of experience with the following programs?
Note that some activities will involve you coding in R and excel; information about a pre-conference R introductory session will be shared at a later date.

	No Experience (1)	Beginner (2)	Intermediate (3)	Advanced (4)
R (1)	○	○	○	○
Python (2)	○	○	○	○
SAS (3)	○	○	○	○
Excel (4)	○	○	○	○

Q33 Have you taken the following courses?

	Yes (1)	No (2)
Algebra (1)	○	○
Calculus I / Basics of differential calculus (2)	○	○
Calculus II / Integral calculus (3)	○	○
Multivariable calculus (4)	○	○
Linear algebra (5)	○	○
Intro to statistics (6)	○	○
Advanced statistics (7)	○	○

Q16 How did you hear about our program? (Please specify.)

- ☐ MIDAS Mailing List (2)
- ☐ Received Direct Email (11)
- ☐ Word of Mouth (9)
- ☐ Social Media (12)
- ☐ Other (7) _____

Q17 Citizenship:

- ○ US Citizen (1)
- ○ US Permanent Resident (2)

Q18 This Conference exists to increase diversity in the field of public health and mathematical modeling. Our program's definition of underrepresented groups is taken strictly from the NIH definition, which can be found here. Please check all that apply; you must be at least one of the following:

- ☐ I have a disability (1)
- ☐ I am from a disadvantaged background (as specified at: https://grants.nih.gov/grants/guide/notice-files/NOT-OD-20-031.html) (2)
- ☐ I am Black/African American (3)
- ☐ I am Hispanic/Latino (4)
- ☐ I am Native American (5)
- ☐ I am Pacific Islander (6)
- ☐ I am Biracial/Multiracial (7)
- ☐ Other, please specify. Please note our program includes categories as defined by the NIH, including people with disabilities and people from disadvantaged backgrounds. If you would like to include any accommodations you may need, please feel free to write them here. (8) _____

Q19 Please check here if you identify as White/Caucasian. (Being White/Caucasian will not exclude you from attending; we are including this so students can select as many identities as fit their experience.)

- ○ I identify as White/Caucasian (1)
- ○ I do not identify as White/Caucasian (2)
- ○ Other (3) _____

Q20 **PLEASE UPLOAD YOUR PERSONAL STATEMENT (must be an MS Word Document or PDF):**

The one-page personal statement should describe your academic and professional interests, your interest in public health, your experience and strengths in quantitative sciences and/or mathematics/mathematical modeling, and why attending this conference will be beneficial to your academic pursuits.

You must follow the following naming convention to name your file:

Student's Last Name First Initial_PersonalStatement_DiversityConference

Example file name for Casey Smith:
SmithC_PersonalStatement_DiversityConference.pdf

Q21 **PLEASE UPLOAD YOUR RESUME/CV (must be an MS Word Document or PDF):**

You must follow the following naming convention to name your file:

Student's Last Name First Initial_Resume_DiversityConference

Example file name for Casey Smith:
SmithC_Resume_DiversityConference.pdf

Q24 **PLEASE UPLOAD YOUR VERIFICATION FORM** (must be a MS Word Document or PDF):

If you do not have the verification form, download it by clicking here.

You must follow the following naming convention to name your file:

Student's Last Name First Initial_VerificationForm_DiversityConference

Example for Casey Smith:
SmithC_VerificationForm_DiversityConference.pdf

End of Block: Default Question Block