



**Workshop (*in person*):**  
**An Introduction to the Analysis of Trends and Transitions for Tobacco and Public Health Research**

**Monday, August 15<sup>th</sup> – Tuesday, August 16<sup>th</sup>, 2022**

**Location: Georgetown University Campus, Reiss Science Building, Washington, D.C.**

***Application Deadline: 11:59 PM EST on Friday, July 8<sup>th</sup>, 2022***

The [Center for the Assessment of Tobacco Regulations \(CAStoR\)](#) is pleased to announce an in-person introductory workshop focused on supporting non-statisticians in learning about methods for modeling trends and transition analysis. The focus will be on concepts, as well as practical examples and applications. Participants will get practice running example codes on tobacco-related datasets. Interested applicants must plan to attend the entire workshop. A CAStoR certificate of completion will be provided upon completion of the workshop.

***Who is this workshop for?***

Tobacco researchers, non-statisticians, non-modelers, students and postdoctoral researchers with background in epidemiology, public health or other health sciences. Federal partners interested in learning more about the analytical approaches covered in this workshop.

***Prerequisite for participation:*** Familiarity with using R and STATA for basic coding. Alternatively, pre-workshop programming tutorials can be provided.

**AGENDA**

Monday, August 15<sup>th</sup>:

- Intro to trend analyses and time series approaches for modeling (David Mendez, University of Michigan – *conceptual*)
- Joinpoint regression (Huann-Sheng Chen, NIH – *conceptual*; Rafael Meza and Jihyoun Jeon, University of Michigan – *practical application*)
- Age-period-cohort modeling (Ted Holford, Yale University – *conceptual*)
- Standard longitudinal data analysis (Steve Cook, University of Michigan – *conceptual and practical application*)

Tuesday, August 16<sup>th</sup>:

- Intro to compartmental modeling (David Mendez, University of Michigan – *conceptual*)

- Markov modeling of transitions: Multi-state modeling (Andrew Brouwer, University of Michigan – *conceptual and practical application*)
- Markov modeling of transitions: Latent transition analysis (Ritesh Mistry, University of Michigan – *conceptual*)
- Bayesian estimation and the Kalman Filter (David Mendez, University of Michigan – *conceptual*; Thuy Le, University of Michigan – *practical application*)

## FUNDING

We are pleased to offer this workshop with no application or registration fees. Additionally, CAsToR will offer a limited amount of funding to offset costs, such as transportation, lodging, and meals. Priority for funding will be given to CAsToR Core Trainees at the University of Michigan, Georgetown University, and Yale University, but others are encouraged to apply. CAsToR Core Trainees are NIH-defined early-stage and new investigators (students, post-docs, professors, and researchers) who have been financially supported by CAsToR.

## WORKSHOP APPLICATION GUIDELINES

- This in-person workshop will be limited to 20 participants.
- Interested applicants must plan to attend the entire workshop.
- Participants must have familiarity with using R and STATA for basic coding. (Alternatively, pre-workshop programming tutorials can be provided).
- In order to apply for the course, please submit a current version of your CV.

## FUNDING APPLICATION GUIDELINES

- In addition to the course application guidelines above, please submit a brief statement (max = one page) describing: (1) why you are interested in this training opportunity; (2) how the training opportunity will advance your career, particularly in tobacco regulatory science; and (3) what categories of costs you are requesting funding support for (transportation, lodging, meals).

**Applications must be submitted online using the following form:**  
[https://umich.qualtrics.com/jfe/form/SV\\_3yo6vCecBbb80V8](https://umich.qualtrics.com/jfe/form/SV_3yo6vCecBbb80V8)

## DUE DATE

Your application is due Friday, July 8<sup>th</sup> by 11:59 PM EST.

## REVIEW PROCESS

CAsToR investigators will review applications, and decisions will be sent by Friday, July 15<sup>th</sup>. If your application is accepted, we will send you an invitation to participate, along with a request for confirmation of your commitment to attend the full two days in person.

## QUESTIONS?

Please contact Nargiz Travis ([nt526@georgetown.edu](mailto:nt526@georgetown.edu)) or Molly Coeling ([mcoeling@umich.edu](mailto:mcoeling@umich.edu)).