



**SPLIT SUMMER SCHOOL STSS2022**

**COURSE: Advanced STR Mixture Interpretation: Probabilistic Genotyping Using MaSTR**

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**Main topics:**

- Challenges of complex STR mixture interpretation
- Properly selecting and applying methods of calculating weight estimates for matching STR profiles
- Integrating the science behind probabilistic genotyping
- Using MaSTR, a probabilistic genotyping software package
- Presenting results in court: issues and challenges



**Programme structure:**

- 3-day course
- Sample data will be provided for practice and for final presentation
- Every student gets lecture notes

**Important dates:**

Course dates: 29/06/2022 – 01/07/2022  
Deadline for application: 15/05/2022  
Payment due by: 01/06/2022  
Confirmation of the course: 10/06/2022

**Price of the course:** 250 € (tax included)

**Programme plan:**

- Day 1
- Use of probabilistic genotyping (PG) software
  - Individual work/exercise
- Day 2
- Interpretation of STR mixture profiles at different analytical thresholds
  - work in pairs/exercise
- Day 3
- Assessment of data and overall findings
  - Challenges in court presentation of results

**Programme lecturers:**

Mitchell Holland, PhD  
Professor, Biochemistry & Molecular Biology, Forensic Science Program, Penn State University, PA, USA

Catherine M. Grgicak, PhD  
Associate Professor, Department of Chemistry, Forensic Science Program, Rutgers University Camden, Camden NJ, USA

Teresa Snyder-Leiby, PhD  
Director of Marketing & Product Management, Forensics and Fragment Analysis, SoftGenetics, PA, USA.