

Special Session 1: Computational pangenomics

Thursday 8 July - Ada Lovelace Bldg.

15h30-16h10 **Franscesca Ciccarella**
*Gene deregulations driving cancer at single patient resolution*16h15-16h55 **Benedikt Paten**
Walk-preserving transformation of overlapped sequence graphs into blunt sequence graphs with GetBlunted

Friday 9 July - Ada Lovelace Bldg.

13h00-13h40 **Rayan Chikhi**
*A tale of optimizing the space taken by de Bruijn graphs*13h45-14h25 **Brona Brejova**
*Probabilistic Models of k-mer Frequencies***Special Session 2: Classical computability theory: Open problems and solutions***Organizers: Noam Greenberg and Steffen Lempp*

Wednesday 7 July - Ada Lovelace Bldg.

16:30-17:10 **Andrea Sorbi**
*Effective inseparability and its applications*17:15-17:55 **Ning Zhong**
Computability and non-computability in planar flows

Thursday 8 July - Ada Lovelace Bldg.

10:30-11:10 **Liang Yu**
*TD implies CCR*11:15-11:55 **Marat Faizrahmanov**
*Generalized Computable Numberings and Degree Spectra of Countable Families***Special Session 3: Computational geometry***Organizers: Maike Buchin and Maarten Löffler*

Thursday 8 July - Alonzo Church Bldg.

15h30-16h10 **Wolfgang Mulzer**
*The Many Computational Models of Computational Geometry*16h15-16h55 **Till Miltzow**
Don't be afraid to burn your fingers --- on the definition of the real RAM (Invited Talk)

Friday 9 July - Alonzo Church Bldg.

13h00-13h40 **Esther Ezra**
*On 3SUM-hard problems in the Decision Tree Model*13h45-14h25 **Karl Bringmann**
*Fine-Grained Complexity Theory: Conditional Lower Bounds for Computational Geometry***Special Session 4: Proof Theory and Computation***Organizers: David Fernández Duque and Juan Pablo Aguilera*

Thursday 8 July - Alonzo Church Bldg.

10:30-11:10 **Yue Yang**
*Some results on Ramsey's theorems for trees*11:15-11:55 **Leszek Kolodziejczyk**
Reverse mathematics of combinatorial principles over a weak base theory

Thursday 8 July - Alan Turing Bldg.

15:30-16:10 **Lorenzo Carlucci**
*Restrictions of Hindman's Theorem: an overview with questions*16:15-17:55 **Francesca Poggiolesi**
*Defining Formal Explanation in Classical Logic by Substructural Derivability***Special Session 5: Quantum computation and information***Organizers: Harry Buhrman and Frank Verstraete*

Wednesday 7 July - Alonzo Church Bldg.

16:30-17:10 **David Gross**
*The axiomatic and the operational approaches to resource theories of magic do not coincide*17:15-17:55 **David Pérez-García**
Uncomputability in quantum many body problems

Thursday 8 July - Alan Turing Bldg.

10:30-11:10 **Yfke Dulek**
*Verify a Quantum Computation*11:15-11:55 **Jens Eisert**
*Undecidability in Quantum Physics***Special Session 6: Church's thesis in constructive mathematics (HaPoC session)***Organizers: Marianna Antonutti-Marfori and Alberto Naibo*

Wednesday 7 July - Alan Turing Bldg.

16:30-17:10 **Mate Szabo**
*Péter on Church's Thesis, Constructivity and Computer Science*17:15-17:55 **Angeliki Koutsoukou-Argyraki**
On preserving the computational content of mathematical proofs: toy examples for a formalising strategy

Friday 9 July - Alan Turing Bldg.

13:00-13:40 **David Turner**
*Constructive mathematics, Church's Thesis, and free choice sequences.*13:45-14:30 **Liron Cohen**
*Formally Computing with the Non-Computable***HaPoC Satellite Workshop***Organizers: Marianna Antonutti-Marfori and Alberto Naibo*

Thursday 8 July - Emil Post Bldg.

9:00-9:40 **Takako Nemoto**
*Reverse mathematics over intuitionistic logic*9:45-10:25 **Hannes Diener**
Constructive™ Mathematics

Thursday 8 July - Emil Post Bldg.

15:30-16:10 **Benno van den Berg**
*Church's Thesis in Homotopy Type Theory*16:15-16:55 **Johanna Franklin**
A Church-Turing thesis for randomness?