

LIST OF TALKS
Twelfth International Permutation Patterns Conference

Monday July 7

08:45—09:00 Welcome and Logistics

09:00—09:30 Lara Pudwell, Valparaiso University, *Ascent Sequences Avoiding Pairs of Patterns.*

09:35—10:05 Michael Albert, University of Otago, *Deflatability of Permutation Classes.*

10:05—10:35 COFFEE BREAK

10:35—11:05 Rebecca Smith, Brockport University, *An Involution on Involutions.*

11:10—11:40 Ruth Hoffmann, University of St-Andrews, *The Regular Language of Simple Permutations.*

11:45—12:15 Adeline Pierrot, Technical University of Vienna, *Automatic Enumeration and Random Generation for Pattern-Avoiding Permutation Classes.*

12:15—13:45 LUNCH at ETSU Cafeteria (Market Place)

13:45—14:15 Vince Vatter, University of Florida, *Strongly Rational and Algebraic Permutation Classes.*

14:20—14:50 Mathilde Bouvel, University of Zürich, *A General Theory of Wilf-Equivalence for Permutation Classes $\text{Av}(231, \pi)$, and Other Catalan Structures.*

14:50—15:20 Logistics and COFFEE BREAK

15:20—15:50 Jay Pantone, University of Florida, *Pattern-Avoiding Involutions: Exact and Asymptotic Enumeration*.

15:55—16:25 David Bevan, Open University, *A Fast-Growing Subset of $Av(1324)$* .

16:30—17:00 Alexander Burstein, Howard University, *Unbalanced Wilf-Equivalence*

Reception and Poster Session 18:00—20:00
(Poster viewing from 19:00—20:00).

LIST OF POSTERS

Michael Albert, University of Otago, *Collatz Meets Fibonacci*.

Antonio Bernini, University of Florence, *On the Möbius Function of the Quasi-Consecutive Pattern Poset*.

Nicolas Borie, University of Paris, Marne-la-Vallée, *Combinatorics of Simple Marked Mesh Patterns in 132-Avoiding Permutations*.

Anant Godbole, ETSU, *Probability Distributions Motivated by Permutations and Featuring Telescoping Series*.

Robin Milosz, University of Montréal, *Medians of Permutations: when $A = \mathcal{M}(A)^*$*

Peter Nugent, University of Wisconsin, Eau Claire (UWEC), Lara Pudwell, Valparaiso University, Manda Riehl, UWEC, and

Monica Tlachac, UWEC, *Pattern Avoidance on Increasing Binary Trees.*

Masaya Tomie, Morioka University, *On Poset Structures of Set Partitions which Avoid a Pattern of Length 3.*

Vincent Vong, University of Paris, Marne-la-Vallée,
Combinatorics of Genocchi Numbers with Non-Commutative Methods.

Ruyue Yuan, Valparaiso University, *Pattern Avoidance in Ordered Set Partitions.*

Tuesday, July 8

09:00—09:30 Jeff Remmel, University of California, San Diego, *A Reciprocity Method for Computing Generating Functions for Words which Avoid Consecutive Patterns According to the Number of Descents.*

09:35—10:05 Quang Bach, University of California, San Diego, *Computing Generating Functions for the Number of Descents in Permutations which Avoid a Family of Permutations that Start with 1.*

10:05—10:35 COFFEE and logistics

10:35—11:35 KEYNOTE, Sergey Kitaev, University of Strathclyde, *Word-Representable Graphs and Permutation Patterns.*

11:40—12:10 Janine LoBue Tiefenbruck, University of California, San Diego, *q -Analogues of Convolutions of Fibonacci Numbers.*

12:10—14:00 LUNCH at El Charolais Mexican Restaurant

14:00—14:30 Bruce Sagan, Michigan State University, *Patterns and Statistics.*

14:35—15:05 Samantha Dahlberg, Michigan State University, *Pattern Avoiding Convolutions and the q -Analogues for Binomial Coefficients.*

15:10—15:40 Robert Dorward, Oberlin College, Thomas Grubb, Michigan State University, and Lindsey Reppuhn, Kalamazoo College, *Patterns and Statistics in Set Partitions*.

15:40—16:10 COFFEE and logistics

16:10—16:40 Jonathan Gerhard, James Madison University, and Carlin Purcell, Vassar College, *Patterns and Statistics in Restricted Growth Functions*.

16:45—17:15 Robert Jamison, Clemson University, *Hoop Closure*.

17:20—17:50 Shaozheng Gao, University of North Carolina, Charlotte, *Unsolved Problems in Computational Science*.

Wednesday, July 9

09:00—09:30 Joshua Cooper, University of South Carolina, *The Complexity of Counting Poset and Permutation Patterns*.

09:35—10:05 Megan Martinez, Dartmouth College, *Pattern Occurrence in Random Walks*.

10:05—10:35 COFFEE and logistics

10:35—11:05 Jason Smith, University of Strathclyde, *Intervals of Permutations with a Fixed Number of Descents are Shellable*.

11:10—12:10 PROBLEM SESSION

12:10—13:30 LUNCH at cafeteria

13:45: Bus departs for Asheville.

Excursion. Optional trip to Biltmore Estate followed by optional Conference Dinner at Market Place Restaurant, <http://www.marketplace-restaurant.com/> You should have about 3 hours at the Estate.

Thursday, July 10

09:00—09:30 Masaki Ikeda, University of Idaho, *Enumeration of Simple Permutations in $Av(52341, 53241, 52431, 35142, 42513, 351624)$*

09:35—10:05 Alexander Woo, University of Idaho, *Pattern Avoidance on Clans, Skew Partitions, and Pairs of 2-Block Set Partitions.*

10:05—10:35 COFFEE

10:35—11:35 KEYNOTE, Carla Savage, North Carolina State University, *Inversion Sequences.*

11:40—12:10 Ryan Kaliszewski, Drexel University, *Hook Coefficients of Chromatic Symmetric Functions.*

12:10—14:00 LUNCH at Ruby Tuesday

14:00—14:30 Amy Grady, Clemson University, *Sorting Index and Mahonian-Stirling Pairs for Labeled Forests.*

14:35—15:05 Manda Riehl, University of Wisconsin, Eau Claire, *Pattern Avoidance on k -ary Heaps.*

15:05—15:35 COFFEE

15:35—16:05 Dan Daly, Southeast Missouri State University, *Connections Between Rook Monoid Pattern Avoidance and Other Combinatorial Objects.*

16:10—16:40 Yannic Vargas, University of Québec at Montréal, *A Hopf Algebra of Permutation Pattern Functions.*

Friday, July 11

09:00—09:30 Mark Shattuck, University of Tennessee, *Pattern Avoiding Set Partitions and Motzkin Left Factors*.

09:35—10:05 Adam Goyt, Minnesota State University, Moorhead, *Packing Set Partitions: A New Hope*.

10:05—10:35 COFFEE

10:35—11:05 Justin Chan, Simon Fraser University, *An Infinite Family of inv-Wilf-Equivalent Permutation Pairs*.

11:10—11:40 Naomi Cameron, Lewis and Clark College, *Inversion Polynomials for Permutations Avoiding Consecutive Patterns*.

11:45—12:15 Brian Nakamura, Rutgers University, *Functional Equations for Enumerating 1324-Avoiding Permutations*.

LUNCH at Cafeteria