

Functional Data Analysis

A Workshop in Honor
of Alois Kneip

June 12–13, 2025

Lipschitz-Saal

Endenicher Allee 60, Bonn



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Functional Data Analysis—A Workshop in Honor of Alois Kneip

Having been putting the fun in FUNctional data analysis since (at least) 1988.

Description

On the occasion of Professor Alois Kneip's retirement and in honor of his academic career, this conference centers around the scientific contributions and interests of Alois Kneip—including nonparametric statistics, functional data analysis, and nonparametric frontier models. The workshop aims at bringing together statisticians with diverse backgrounds, providing a platform to exchange their ideas and foster new collaborations.

Organizing Committee

IFS

Dominik Liebl
Joachim Freyberger
Dennis Schroers
Almut Lunkenheimer

HCM

Andrea Ronnau

Timetable – June 12

Functional Data Analysis–A Workshop in Honor of Alois Kneip

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Thursday, June 12

| | | |
|-------------|--|--|
| 8:15–8:45 | Registration | |
| 8:45–9:00 | Welcome by the Vice Dean Prof. Dr. Sven Rady & Local Organizers | |
| 9:00–9:40 | Aurore Delaigle University of Melbourne | Analysis of Fragments of Functional Data |
| 9:40–10:20 | Sonja Greven Humboldt University of Berlin | Bayes Hilbert Space Additive Density-on-Scalar Regression Based on Individual Observations |
| 10:20–10:50 | Coffee Break | |
| 10:50–11:30 | Frédéric Ferraty Paul Sabatier University, Toulouse | Density-Valued Time Series: Nonparametric Density-on-Density Regression |
| 11:30–12:10 | Pascal Sarda University of Toulouse | Some Incursions Into High Dimensional and Functional Regression Analysis |
| 12:10–13:40 | Lunch Break | |
| 13:40–14:20 | Eftychia Solea Queen Mary University of London | Robust Inverse Regression from Multivariate Elliptical Functional Data |
| 14:20–15:00 | Fabian Telschow Humboldt University of Berlin | Expected Euler Characteristic Approximations in Functional Data |
| 15:00–15:30 | Coffee Break | |
| 15:30–16:10 | Hans-Georg Müller UC Davis | Conformal Inference for Random Objects |
| 16:10–16:50 | Wolfgang Karl Härdle Humboldt University of Berlin | Data Science in a Math-Less Digital Society |
| 16:50–18:20 | Reception | |
| 19:00 | Dinner at the Restaurant Nees (By Invitation) | |

Coffee breaks and lunch will be provided in the conference building for all participants.

The reception will be held in the conference building and is open to all participants.

Last Update: June 10

Timetable – June 13

Functional Data Analysis—A Workshop in Honor of Alois Kneip

Having been putting the fun in FUNctional data analysis since (at least) 1988.

Friday, June 13

| | | |
|-------------|---|---|
| 8:55–9:00 | Welcome | |
| 9:00–9:40 | Jane-Ling Wang UC Davis | Deep Neural Networks for Functional Data |
| 9:40–10:20 | Irène Gijbels KU Leuven | Scalar on Function Regression under Random Censoring |
| 10:20–10:50 | Coffee Break | |
| 10:50–11:30 | Léopold Simar UCLouvain | Inference in Static and Dynamic Nonparametric Models of Production for General Technologies |
| 11:30–12:10 | Valentin Patilea CREST Ensaï, Rennes | Optimal Inference for the Mean of Random Functions |
| 12:10–13:40 | Lunch Break | |
| 13:40–14:20 | Marie-Christine Düker Friedrich-Alexander University, Erlangen | Scaling Limits for Sample Autocovariance Operators of Hilbert Space-Valued Linear Processes |
| 14:20–15:00 | Sven Otto University of Cologne | Functional Factor Regression with an Application to Electricity Price Curve Modeling |
| 15:00–15:40 | James O. Ramsay McGill University, Montreal | What about Manifolds? |
| 15:40–16:00 | Closing & Coffee Break | |
| 19:00 | Dinner at the Restaurant Zum Böllchen (By Invitation) | |

Coffee breaks and lunch will be provided in the conference building for all participants.

Last Update: June 10

List of Participants

| | | |
|-----------------|------------------|-------------------------------------|
| Zaheer | Ahmed | TU Dortmund |
| Carolina | Alvarez | University of Bonn |
| Oualid | Bada | Telekom |
| Guillaume | Baquet | Université Libre de Bruxelles |
| Luke Alexander | Barratt | University of Cambridge |
| Patrick | Bastian | Ruhr University Bochum |
| Rupsa | Basu | University of Cologne |
| Egshiglen | Batbayar | University of Bonn |
| Daniel | Becker | AXA AG |
| Blerta | Begu | University College Dublin |
| Christoph | Breunig | University of Bonn |
| Hugo | Brunet | UCLouvain |
| Julian | Budde | University of Bonn |
| Robert | Cantwell | University of Cambridge |
| Thiago | Cardoso | University College Dublin |
| Michelle | Carey | University College Dublin |
| Michele | Cavazzutti | Polytechnic University of Milan |
| Anik | De | University of Bonn |
| Pierre | Dehez | UCLouvain |
| Nina | Dekoninck Bruhin | University of Cambridge |
| Aurore | Delaigle | University of Melbourne |
| Nihan Acar | Denizli | Polytechnic University of Catalonia |
| Gauthier | Dierickx | BaFin |
| Marie-Christine | Düker | University Erlangen-Nürnberg |
| Alexander | Effland | University of Bonn |
| Paul | Eilers | Erasmus University Medical Center |
| Chencheng | Fang | University of Bonn |
| Frédéric | Ferraty | Paul Sabatier University, Toulouse |
| Jorge | Ferrús Madera | University of Bonn |
| Joachim | Freyberger | University of Bonn |
| Irène | Gijbels | KU Leuven |
| Alfredo | Gimenez Zapiola | Polytechnic University of Milan |
| Tim | Greger | University of Bayreuth |
| Sonja | Greven | Humboldt University of Berlin |
| Wolfgang Karl | Härdle | Humboldt University of Berlin |
| Catherine | Higgins | University College Dublin |
| Werner | Hildenbrand | University of Bonn |
| Arlo | Hook | University of Technology Sydney |
| Björn | Höppner | University of Bonn |
| Lorens | Imhof | University of Bonn |

| | | |
|------------|------------------|------------------------------------|
| Gero | Junike | University of Oldenburg |
| Julius | Kappenberg | University of Bonn |
| Omar | Kassi | CREST Ensai, Rennes |
| Göran | Kauermann | LMU Munich |
| Alois | Kneip | University of Bonn |
| Sebastian | Kühnert | Ruhr University Bochum |
| Dominik | Liebl | University of Bonn |
| Manuel | Lorenz | University of Kassel |
| Alexander | Luo | University College London |
| Gabriel | Martos Venturini | Torcuato di Tella University |
| Uche | Mbaka | University College Dublin |
| Tim | Mensingher | University of Bonn |
| Vladislav | Morozov | University of Bonn |
| Hans-Georg | Müller | UC Davis |
| Claudia | Noack | University of Bonn |
| Mirkan | Öcal | University of Cologne |
| Sven | Otto | University of Cologne |
| Giulia | Patanè | Polytechnic University of Milan |
| Valentin | Patilea | CREST Ensai, Rennes |
| Andreas | Petersson | Linnaeus University |
| Dominik | Poß | BaFin |
| Sven | Rady | University of Bonn |
| James O. | Ramsay | McGill University, Montreal |
| Klaus | Sandmann | University of Bonn |
| Pascal | Sarda | University of Toulouse |
| Fabian | Scheipl | LMU Munich |
| Jan | Scherer | University of Bonn |
| Dennis | Schroers | University of Bonn |
| Leonie | Selk | University of Hamburg |
| Léopold | Simar | UCLouvain |
| Nebi | Simsek | University of Bonn |
| Łukasz | Smaga | Adam Mickiewicz University, Poznań |
| Eftychia | Solea | Queen Mary University of London |
| Almond | Stöcker | EPFL, Lausanne |
| Fabian | Telschow | Humboldt University of Berlin |
| Nico | Thurow | University of Bonn |
| Germain | van Bever | Université Libre de Bruxelles |
| Heiko | Wagner | AXA AG |
| Fabian | Walders | Meryts |
| Jane-Ling | Wang | UC Davis |
| Zijian | Wang | University of Bonn |
| Jędrzej | Wydra | Adam Mickiewicz University |
| Pan | Zhao | University of Cambridge |

Useful Information

Conference Venue:

Lipschitz-Saal (Room 1.016)
Center for Mathematics
Endenicher Allee 60
53115 Bonn.

The venue can be reached by:

- **Walking:** About 15-20 minutes walk from the central station (Hauptbahnhof) to the Center for Mathematics.
- **Bus:** Lines 604, 605, 606, 607 every 5 minutes form the central station (Hauptbahnhof) to the stop Kaufmannstraße. The bus stop is located in front of the main entrance of the Center for Mathematics. (See map below.)

Coffee breaks, lunches, and the reception will be provided free of charge to all participants in the conference building.

Wi-Fi will be available via eduroam (<https://cat.eduroam.org>).

Guest passes (for guests with no connection to eduroam) are provided upon request.

Conference dinner (By Invitation):

Restaurant Nees
Meckenheimer Allee 169
53115 Bonn

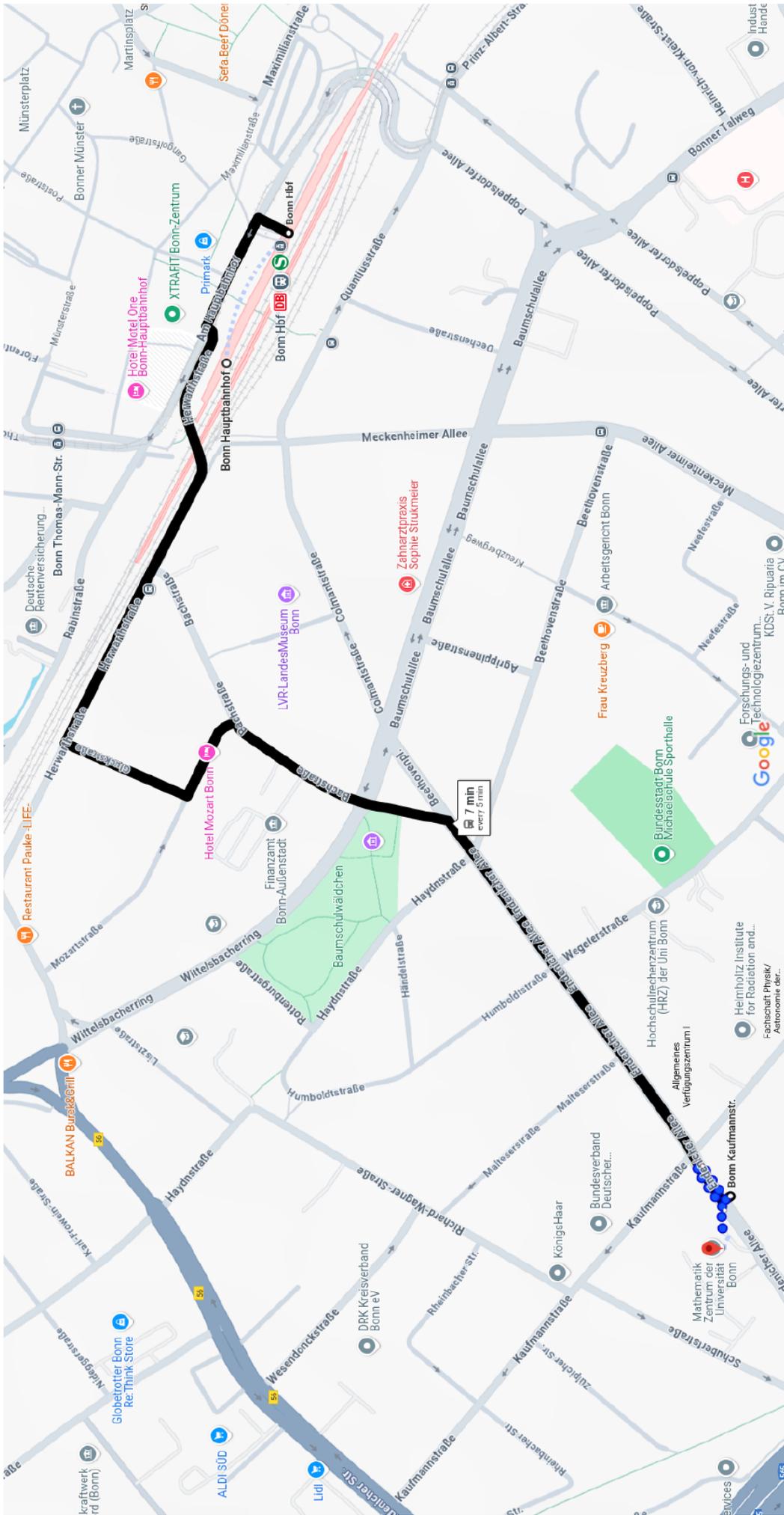
Closing dinner (By Invitation):

Weinwirtschaft Zum Böllchen
Rhöndorfer Straße 33
53604 Bad Honnef

Getting to Bad Honnef:

Take Tram Line 66 (direction "Bad Honnef") from Bonn Hauptbahnhof (lower level) to Rhöndorf. The journey takes approximately 35 minutes.

Departure times: 18:03, 18:23, 18:43, 19:03, 19:43.



Funding



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