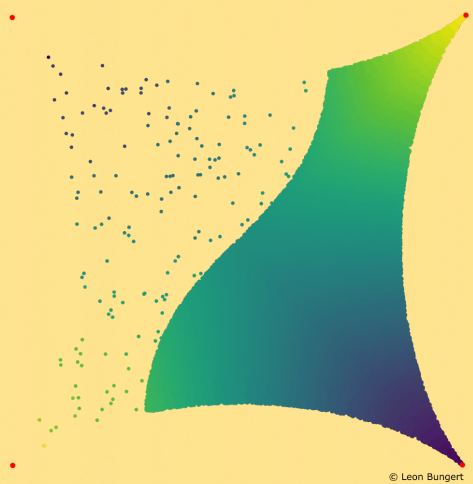


WORKSHOP

June 13 - 17, 2022



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# Synergies between Data Science and PDE Analysis

## Organizers:

Leon Bungert, *Bonn*, Franca Hoffmann, *Bonn*

Venue: Lipschitz lecture hall · Mathematics Center · Endenicher Allee 60 · 53115 Bonn

The current success story of data science calls for interpretable machine learning methods. For instance, in the context of sampling, graph-based learning or neural networks, PDE-based methods have proven to be both efficient and apt for mathematical analysis.

This workshop brings together experts and young researchers in these two vibrant fields and aims to create a stimulating environment for exchanging scientific ideas and establishing new collaborations.

## Key Note Speakers:

- Andrea Bertozzi
- Gitta Kutyniok
- Adam Oberman

## Speakers:

- |                          |                       |                        |
|--------------------------|-----------------------|------------------------|
| • Jeff Calder            | • Matthias J. Erhardt | • Matthew Thorpe       |
| • Ke Chen                | • Arnulf Jentzen      | • Harini Veeraraghavan |
| • Andrew Duncan          | • Lisa Maria Kreusser | • Soledad Villar       |
| • Nicolás García Trillos | • Nikolas Nüsken      | • Stephan Wojtowytsch  |
| • Tamara Grossmann       | • Phillipp Petersen   | • Yunan Yang           |
| • Eldad Haber            | • Clarice Poon        |                        |
| • Bamdad Hosseini        | • Dejan Slepčev       |                        |

This workshop is organized in tandem with the Hausdorff School “Foundational Methods in Machine Learning”.



**Call for participation:** Participation is free. If you are interested in participating, please fill out the application form: <https://www.hcm.uni-bonn.de/events/eventpages/2022/syn-2022/application-syn-2022/>. Successful applicants are selected based on research background, and receive financial support for local expenses. To be considered for this financial support, please submit a CV and research overview. To encourage the participation of researchers facing increased financial burden, such as many researchers from developing countries, a small number of fully funded places are available (including support for travel, visa fees etc). You can indicate in the application form, for which type of financial support you would like to be considered. Additional participants are welcome to join at their own cost. **The deadline for applications to participate in the workshop is February 15, 2022 (CET).**