

## Approximation approaches - from Fourier analysis to deep learning [221661-0553], spring 2019/20

Lecturer: Bogumił Kamiński

Schedule: Wednesdays, 13:30-15:10, C-5C

### Lectures

During the lectures we will follow the content in VLMS book slides and programming notebooks.

### Literature

- VLMS: S. Boyd and L. Vandenberghe, Introduction to Applied Linear Algebra (<http://vlms-book.stanford.edu/>)
- Optional: B. Kamiński, P. Szufel: Julia 1.0 Programming Cookbook, Packt Publishing, 2018 (<https://www.packtpub.com/application-development/julia-10-programming-cookbook>)

### Course evaluation criteria

- Two reports on modeling exercises: k-means segmentation of unstructured data and advanced least squares modelling. Each worth 50 points. Reports should be sent to Bogumił Kamiński before the last two lectures. During the last two lectures each participant should present on-line the results of the reports (k-means on 2020/06/03 and least squares on 2020/06/10).

Sum of points		Final grade
Od	Do	
0	49	2.0
50	59	3.0
60	69	3.5
70	79	4.0
80	89	4.5
90	100	5.0