

# Geometric group theory

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## Abstract:

The reading seminar will follow the book “Office hours with a geometric group theorist”. We will cover a choice of topics from the following list:

1. Groups Acting on Trees
2. Free Groups and Folding
3. The Ping-Pong Lemma
4. Automorphisms of Free Groups
5. Quasi-isometries
6. Dehn Functions
7. Hyperbolic Groups
8. Ends of Groups
9. Asymptotic Dimension
10. Growth of Groups
11. Coxeter Groups
12. Right-Angled Artin Groups
13. Lamplighter Groups
14. Thompsons Group
15. Mapping Class Groups
16. Braids

## References:

M. Clay & D. Margalit (ed.), *Office hours with a Geometric Group Theorist*, Princeton University Press, 2017.