References and Further Reading

Books on geometric group theory

The first two books below are the classic references (despite not being so old – the field is young!) I particularly like Drutu–Kapovich [3] – it's probably closest in flavor to my perspective in this course. Warning: it is still a draft and at this point contains some typos. Cornulier – De La Harpe [4] is also very recent, and the only detailed reference I know to take a unified perspective for locally compact groups.

1. P. De La Harpe *Topics in Geometric Group Theory.* Chicago Lectures in Mathematics, University of Chicago Press, 2000.

2. D. B. A. Epstein, M. Paterson, J. W. Cannon, D. Holt, S. Levy, W. Thurston. *Word Processing in Groups.* AK Peters, Ltd., 1992.

3. C. Drutu, M. Kapovich *Lectures on Geometric Group Theory.* Book in preparation. Draft available at `https://www.math.ucdavis.edu/~kapovich/EPR/kapovich_drutu.pdf`

4. Y. Cornulier, P. De La Harpe. *Metric geometry of locally compact groups.* Preprint arXiv:1403.3796 (2014).

Proofs of Mostow Rigidity

Mostow's original book is not so easy to read, but there are many good expository accounts. Bourdon's paper is closest to the strategy I presented (which is Mostow's original).

5. M. Bourdon *Quasi-conformal geometry and Mostow rigidity.* Géométriesa courbure négative ou nulle, groupes discrets et rigidités, 18 (2000): 201-212.

The next two references do the *Gromov norm* proof. Benedetti–Petronio also contains a very detailed account of the common beginning of the proof. Munkholm is more concise.

6. R. Benedetti and C. Petronio, *Lectures on Hyperbolic Geometry.* Universitext. Springer-Verlag 1992

7. H. Munkholm, *Simplices of maximal volume in hyperbolic space, Gromov's norm, and Gromov's proof of Mostow's rigidity theorem (following Thurston).* In Topology Symposium Siegen 1979 (pp. 109-124). Springer Berlin Heidelberg.