

## Advanced Topics in Foundations of Databases

### Material for Final Project and Essays

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### Theme 3: Semi-structured Data

#### Graph-structured Data

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2. Pablo Barcelo: Querying graph databases. *PODS 2013*: 175-188
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4. Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini, Moshe Y. Vardi: Rewriting of Regular Expressions and Regular Path Queries. *J. Comput. Syst. Sci.* 64(3): 443-465 (2002)
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10. Dominik D. Freydenberger, Nicole Schweikardt: Expressiveness and Static Analysis of Extended Conjunctive Regular Path Queries. *AMW 2011*

11. Jelle Hellings, Bart Kuijpers, Jan Van den Bussche, Xiaowang Zhang: Walk logic as a framework for path query languages on graph databases. ICDT 2013: 117-128
12. Pablo Barcelo, Leonid Libkin, Juan L. Reutter: Querying Regular Graph Patterns. Journal of the ACM 61(1): 8:1-8:54 (2014)
13. Wenfei Fan, Xin Wang, Yinghui Wu: Querying big graphs within bounded resources. SIGMOD Conference 2014: 301-312
14. Wenfei Fan: Graph pattern matching revised for social network analysis. ICDT 2012: 8-21