

1 计算社会科学简介







		<u>Matthew J. Salganik Bit by Bit_ social research in the digital age-princeton university_press (2017).pdf</u>		
		<u>Should social science be more solution-oriented?.pdf</u>		
		<u>1 Watts (2007) A twenty-first century science. Nature 445. Feb.pdf</u>		
		<u>0. Watts 2016 Common sense.pdf</u>		
		<u>1 Lazer et al (2009) Computational social science. Science.pdf</u>		
		<u>Lessons and Challenges in Computational Social Science.pdf</u>		
		<u>1 King, G. (2011). Ensuring the Data-Rich Future of the Social Sciences. Science.pdf</u>		
		<u>homework day 1 mobirise + republic</u> 多个截止时间 5分		





2 大数据



		<u>Chetty The Fading American Dream- Trends in Absolute Income Mobility Since 1940.pdf</u>		
		<u>5. Wu 2019 Small Team Disrupt.pdf</u>		
		<u>5. Ginsberg (2009) Detecting influenza epidemics using</u>		

  search engine query data. Nature.pdf  

  6. Blumenstock 2015 Predicting poverty and wealth from mobile phone metadata.pdf  





  homework day 2 big data
5分  





 ▾ 3 休息  + 





  规模：复杂世界的简单法则 .epub  

 ▾ 4 调查&实验  + 

  3. Bond et al (2012) A 61-million-person experiment in social influence and political mobilization. Nature.pdf  











  3. Salganik (2006) Experimental study of inequality and unpredictability in an artificial cultural market. Science.pdf  



  Phan & Airoidi (2015) A natural experiment of social network formation and dynamics. PNAS.pdf  





  3. Centola (2010) The spread of behavior in an online social network experiment. Science.pdf  




  3. Kramer et al. (2014) Emotional Contagion.pdf  




  homework day 4 survey + experiment
5分  

5 网络科学		✓	+	⋮
⋮	 Barabasi Network Science book 	✓		⋮
	(http://networksciencebook.com/)			-
⋮	 <u>5. The spread of true and false news online.pdf</u>	✓		⋮
⋮	 <u>1. Watts 1998 Collective Dynamics of “Small-world” Networks.pdf</u>	✓		⋮
⋮	 <u>2. Barabasi (1999) Emergence of scaling in random networks.Science-509-12.pdf</u>	✓		⋮
⋮	 <u>2. Science-2014-Schich-A network framework of cultural history.558-62.pdf</u>	✓		⋮
⋮	 <u>4 Watts (2002) A simple model of global cascade on random networks. PNAS.pdf</u>	✓		⋮
⋮	 <u>Granovetter (1978) Threshold models of collective behavior. AJS.pdf</u>	✓		⋮
⋮	 <u>Granovetter (1973)The strength of weakties. AJS.pdf</u>	✓		⋮
⋮	 <u>homework day 5 network true-and-false-news</u> 5分	✓		⋮

6 机器学习入门		✓	+	⋮
⋮	 <u>0 Python Data Science Handbook Essential Tools for Working with Data by Jake VanderPlas (z-lib.org).pdf</u>	✓		⋮
⋮	 <u>6. Lazer et al.. 2014. The parable of Google Flu Traps in big data analysis.pdf</u>	✓		⋮
	<u>5. Ginsberg (2009) Detecting influenza epidemics using</u>			

⋮		<u>search engine query data. Nature. v457. 19 Feb.07634.pdf.pdf</u>	✓	⋮
⋮		<u>6. Risi. 2019 Predicting history.pdf</u>	✓	⋮
⋮		<u>6. Salganik 2020 PNAS Measuring the predictability of life outcomes with a scientific mass collaboration.pdf</u>	✓	⋮
⋮		<u>homework day 6 machine learning googleflu</u> 5分	✓	⋮

⋮	▼ 7 机器学习算法		✓	+	⋮
⋮		<u>6. Blumenstock 2015 Predicting poverty and wealth from mobile phone metadata.pdf</u>	✓	⋮	
⋮		<u>6.Frey, C. B., & Osborne, M. A. (2017). The future of employment How susceptible are jobs to computerisation. Technological forecasting and social change.pdf</u>	✓	⋮	
⋮		<u>homework day 7 machine learning future work & fake news detection & poverty prediction</u> 5分	✓	⋮	

⋮	▼ 8 神经网络模型		✓	+	⋮
⋮		<u>Dive into Deep Learning-en-pytorch.pdf</u>	✓	⋮	
⋮		<u>TemporalFusionTransformersforinterpretablemulti-horizontimeseriesforecasting.pdf</u>	✓	⋮	
⋮		<u>homework day 8 deep learning fake news detection & imagenet vgg16 pretrained model</u>	✓	⋮	

9 词向量嵌入模型



		<u>10 Mikolov 2013 Efficient Estimation of Word Representations in Vector Space.pdf</u>		
		<u>10 Mikolov 2013 Distributed Representations of Words and Phrases and their Compositionality.pdf</u>		
		<u>10 Kozlowski, A. C., Taddy, M., & Evans, J. A. (2019). The Geometry of Culture- Analyzing the Meanings of Class through Word Embeddings. American Sociological Review.pdf</u>		
		<u>10 Word embeddings quantify 100 years of gender and ethnic stereotypes.pdf</u>		
		<u>how quantifying the shapes of the stories predict their success full.pdf</u>		
		<u>The Cinderella Complex.pdf</u>		
		<u>10 node2vec-kdd16.pdf</u>		
		<u>10. Perozzi, B., Al-Rfou, R., & Skiena, S. (2014). DeepWalk. Proceedings of the 20th ACM SIGKDD .pdf</u>		
		<u>homework day 9 embeddings</u> 5 分		

10 自然语言处理





9. Michel (2011) Quantitative analysis of culture using millions of digitized books. Science.pdf



Storywrangler- A massive exploratorium for sociolinguistic, cultural, socioeconomic, and political timelines using Twitter.pdf

