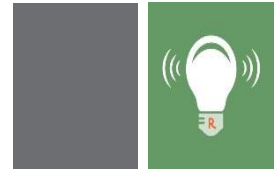
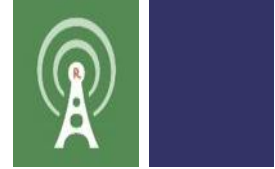


Data Scientist in Dynamic Asia

Revolution R Enterprise

8 October 2014

Julian Lee
Technical Pre-Sales Consultant
Revolution Analytics Singapore Pte. Ltd.

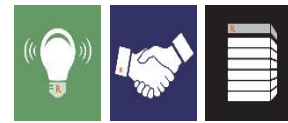




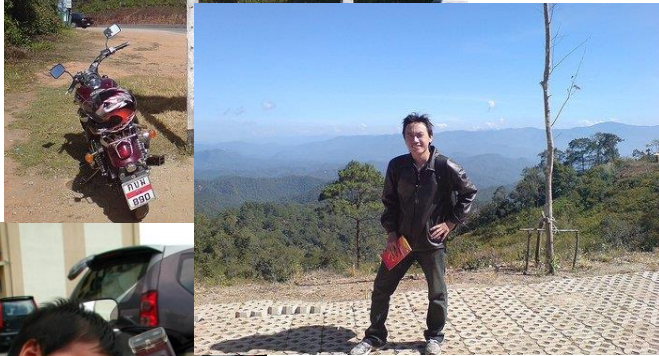
Agenda

- Who am I?
- What is a Data Scientist?
- What are the tool and techniques for Data Scientists?
- Current and Future



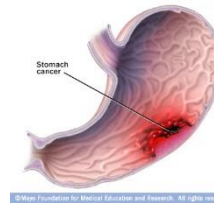
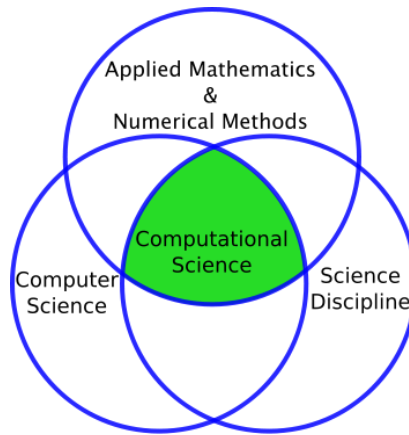


Who Am I?



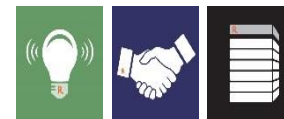
National Cancer Centre Singapore

SingHealth



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Who am I?

Intrinsic Subtypes of Gastric Cancer, Based on Gene Expression Pattern, Predict Survival and Respond Differently to Chemotherapy

Iain Beehuat Tan, Tatiana Ivanova, Kiat Hon Lim, Chee Wee Ong, Niantao Deng, Julian Lee, Sze Huey Tan, Jeanie Wu, Ming Hui Lee, Chia Huey Ooi, Sun Young Rha, Wai Keong Wong, Alex Boussioutas, Khay Guan Yeoh, Jimmy So, Wei Peng Yong, Akira Tsuburaya, Heike Grabsch, Han Chong Toh, Steven Rozen, Jae Ho Cheong, Sung Hoon Noh, Wei Kiat Wan, Jaffer A. Ajani, Ju-Seog Lee, Manuel Salto-Tellez, Patrick Tan

Genomic Loss of miR-486 Regulates Tumor Progression and the OLFM4 Anti-apoptotic Factor in Gastric Cancer

Hue-Kian Oh¹, Angie Lay-Keng Tan², Kakoli Das², Chia Huey Ooi³, Nian-Tao Deng², Iain B Tan⁴, Emmanuel Beillard², Julian Lee⁵, Kalpana Ramnarayanan¹, Sun Young Rha⁶, Nallasivam Palanisamy⁷, P. Mathijs Voorhoeve², and Patrick Tan^{2,*}

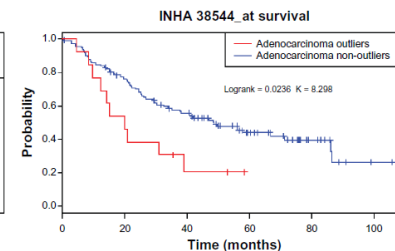
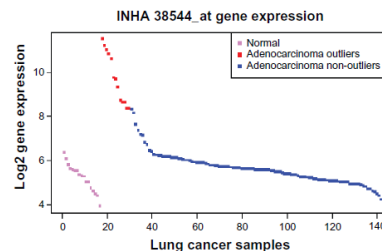
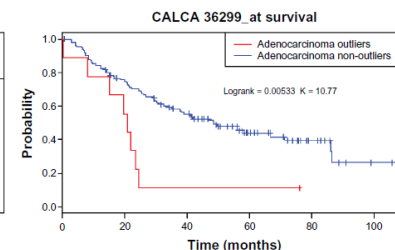
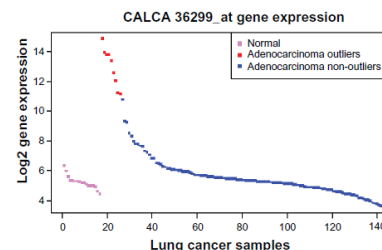
ORIGINAL RESEARCH

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A Comparison of Methods for Data-Driven Cancer Outlier Discovery, and An Application Scheme to Semisupervised Predictive Biomarker Discovery

Seppo Karrila¹, Julian Hock Ean Lee¹ and Greg Tucker-Kellogg^{1,2}

¹Lilly Singapore Centre for Drug Discovery, Eli Lilly and Company, Singapore. ²Department of Biological Sciences, Faculty of Science, National University of Singapore, Singapore. Corresponding author email: dbsgtk@nus.edu.sg



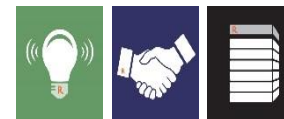


What is a Data Scientist?

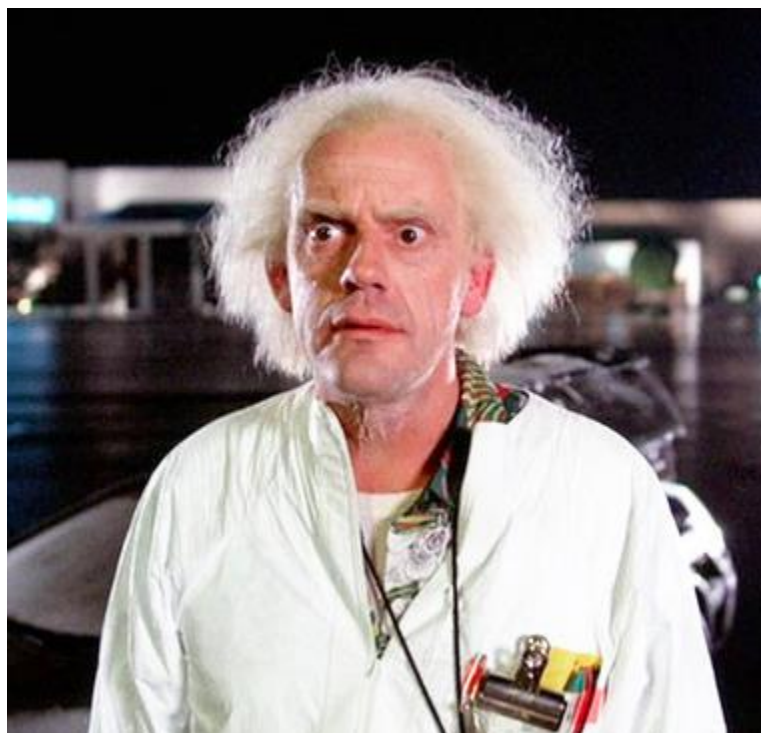
~~Data~~ Science

is an oxymoron

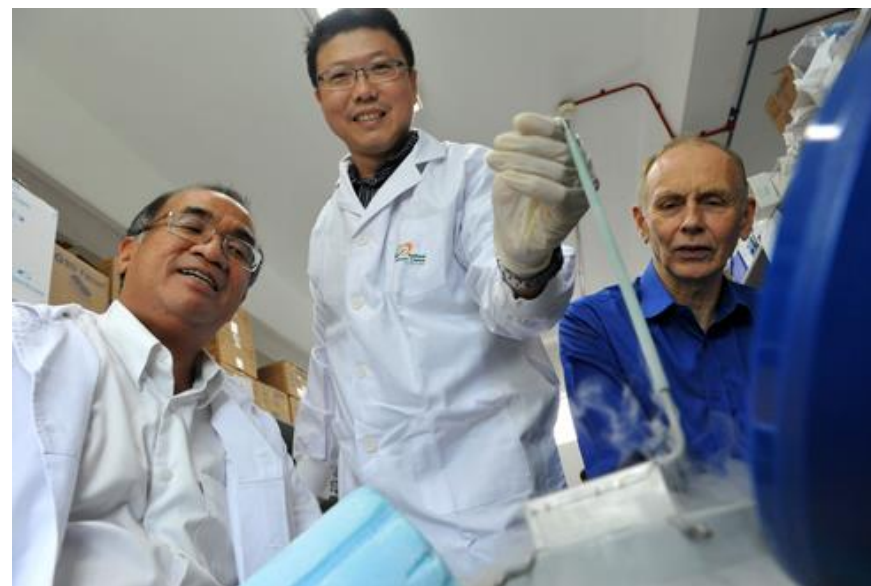




What is a data scientist?



http://epicrapbattlesofhistory.wikia.com/wiki/Doc_Brown



From left: NCCS-Vari Translational Research Laboratory director Teh Bin Tean, NCCS-Vari lab researcher Ong Choon Kiat and head of the computational systems biology and human genetics laboratory at Duke-NUS, Associate Professor Steve Rozen.

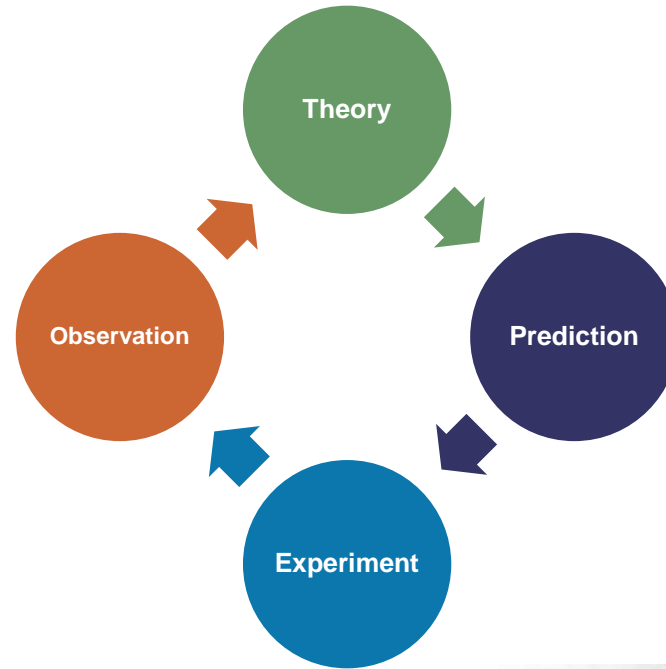
http://www.singhealth.com.sg/AboutSingHealth/CorporateOverview/Newsroom/NewsArticles/2012/Pages/TheSundayTimes17June2012_2.aspx



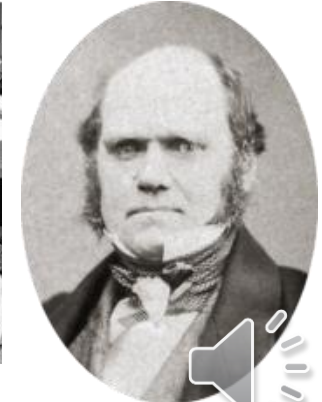
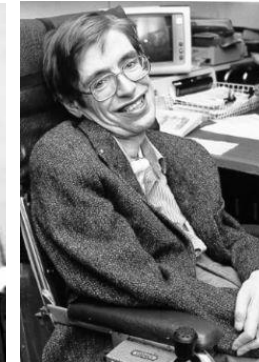


What is a data scientist

*Question
Hypothesis
Procedure
Experiment
Data Analysis
Conclusion
Abstract
Presentation*



**KEEP
CALM
AND USE THE
SCIENTIFIC
METHOD**





What is a Data Scientist – by Quora

"A data scientist is someone who is better at statistics than any software engineer and better at software engineering than any statistician." – Josh Wills

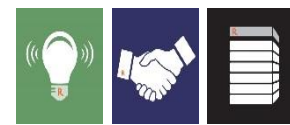
About \$20,000 a year (more).
– Gordon Macmaster

A data scientist is a statistician who lives in San Francisco. - Alon Amit

Data scientists are statisticians who call themselves data scientists to get a job. – Raj Bhuptani

Data scientists are not scientists. It is just a cool title that undergrads fresh into industry can be lured by. Not even freshly-minted grads in pure sciences call themselves scientists! And data science is pretty much data analysis and hackery, not science. – Abhinav Maurya

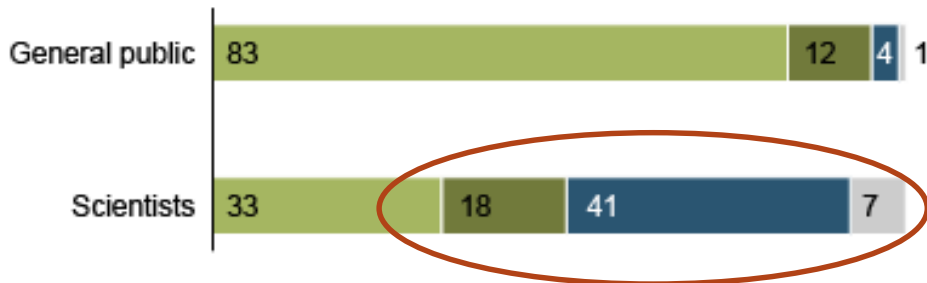




Tools and Techniques of Data Scientists

Religious Belief Among the General Public and Scientists

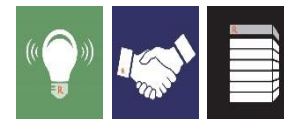
- % Who believe in God
- % Who don't believe in God, but do believe in a universal spirit or higher power
- % Who don't believe in either
- % Don't know/Refused (VOL.)



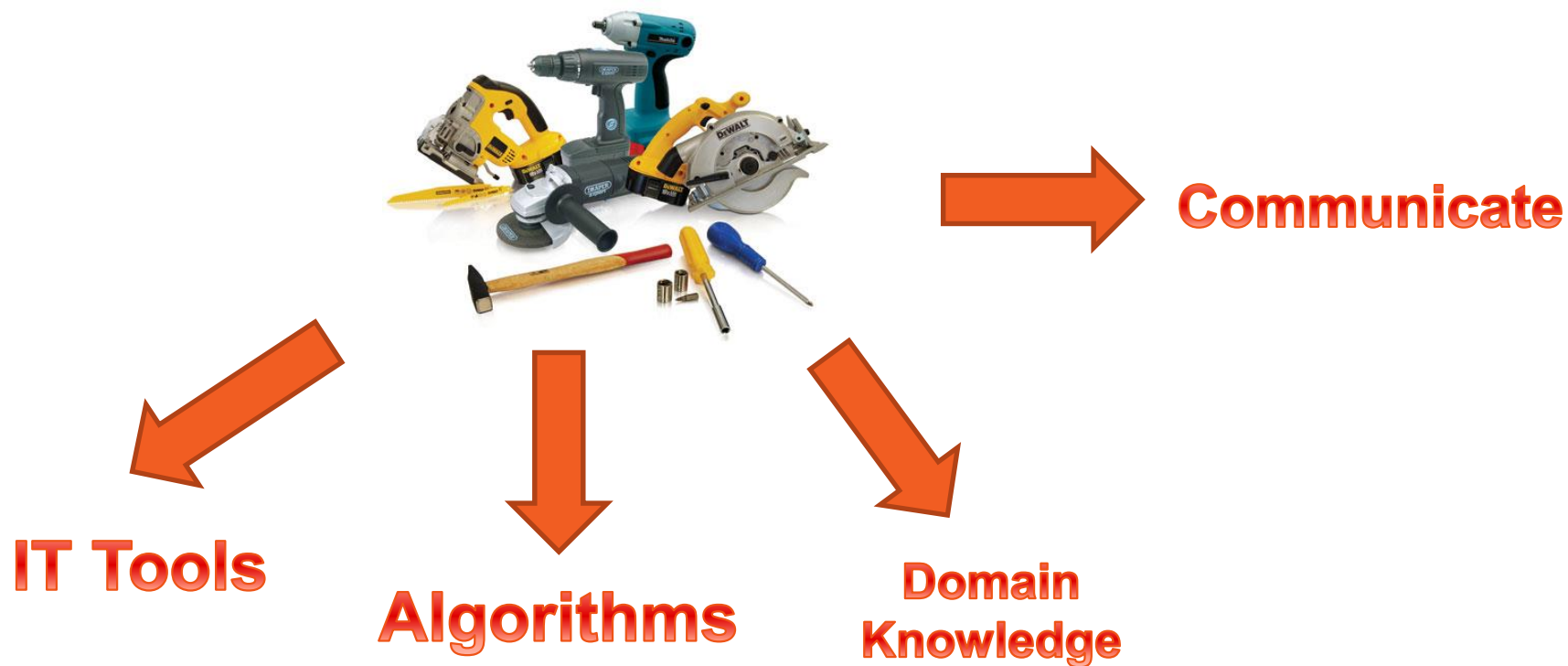
Tool Agnostic

<http://www.pewforum.org/2009/11/05/scientists-and-belief/>

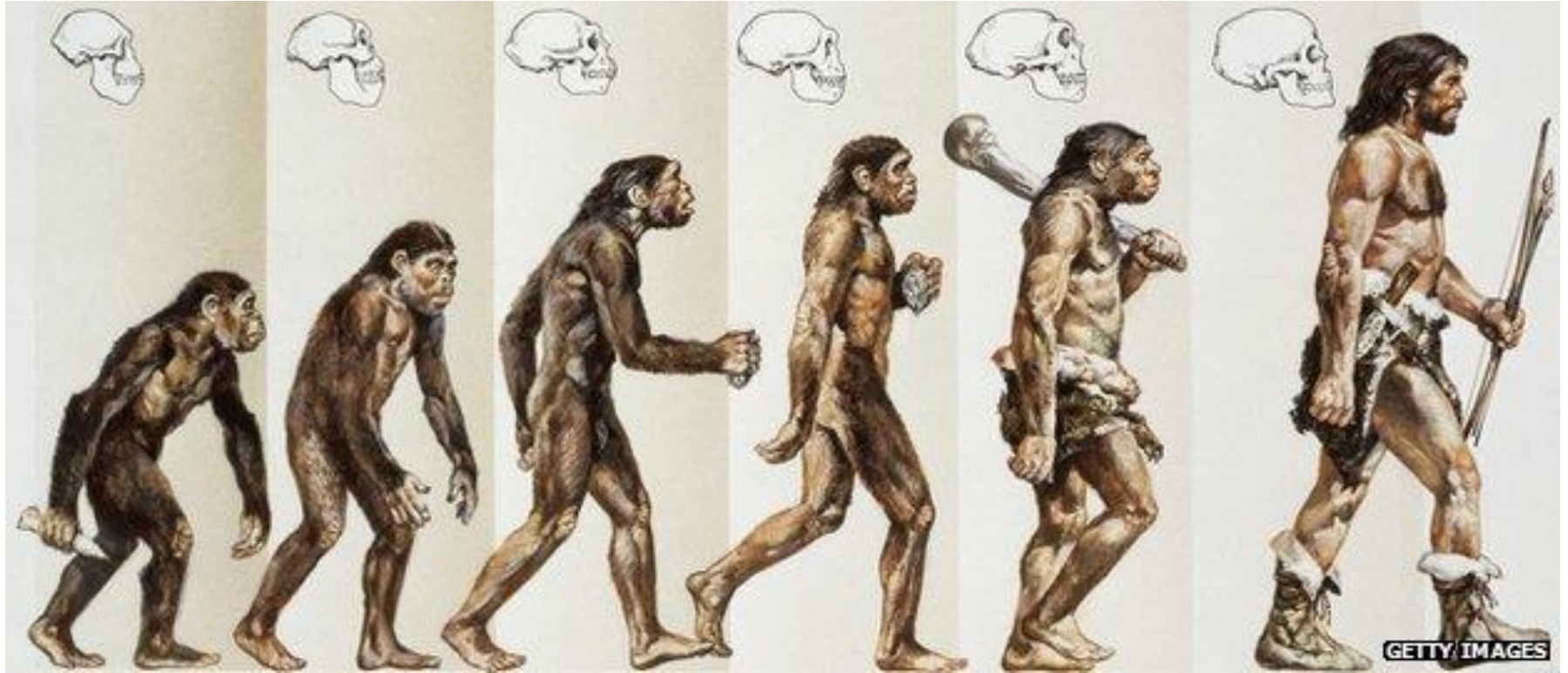




Tools and Techniques of Data Scientists



Current and Future





Current and Future





Thank You

