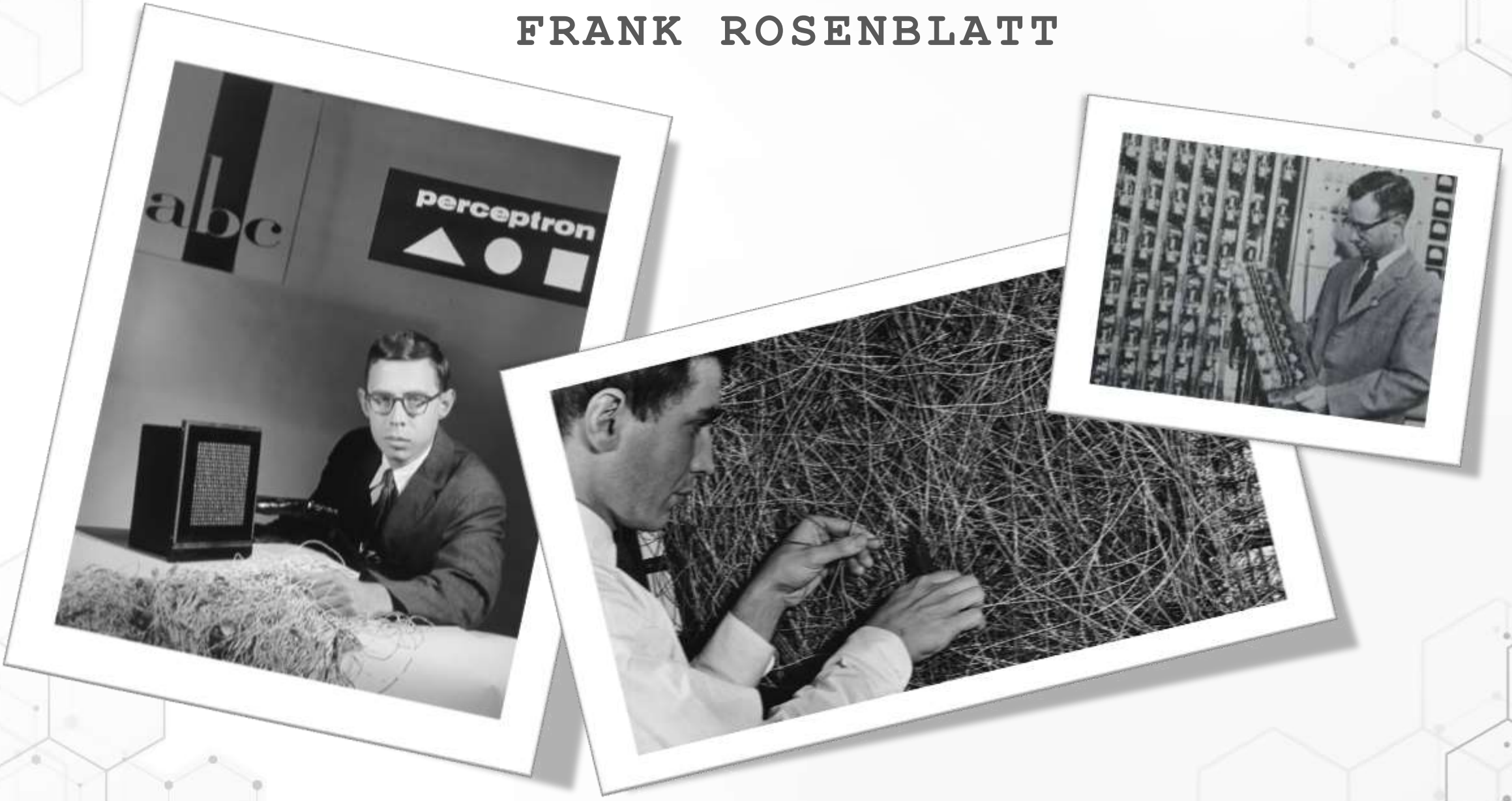
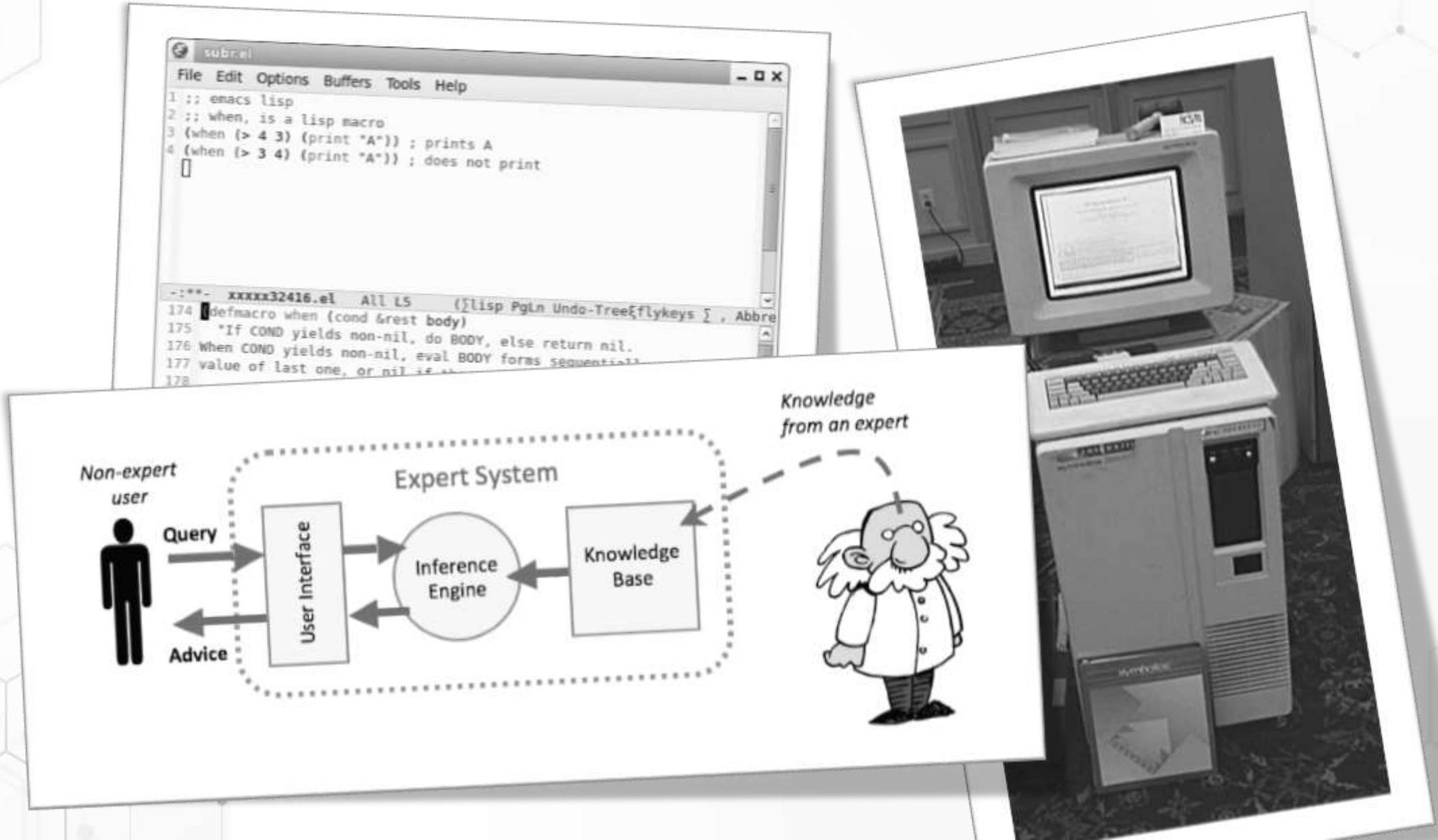
DEEP LEARNING WORLD

BEYOND VISION, SOUND AND NLP

MIMICKING THE BRAIN: FRANK ROSENBLATT



1980: EXPERT SYSTEMS AND LISP



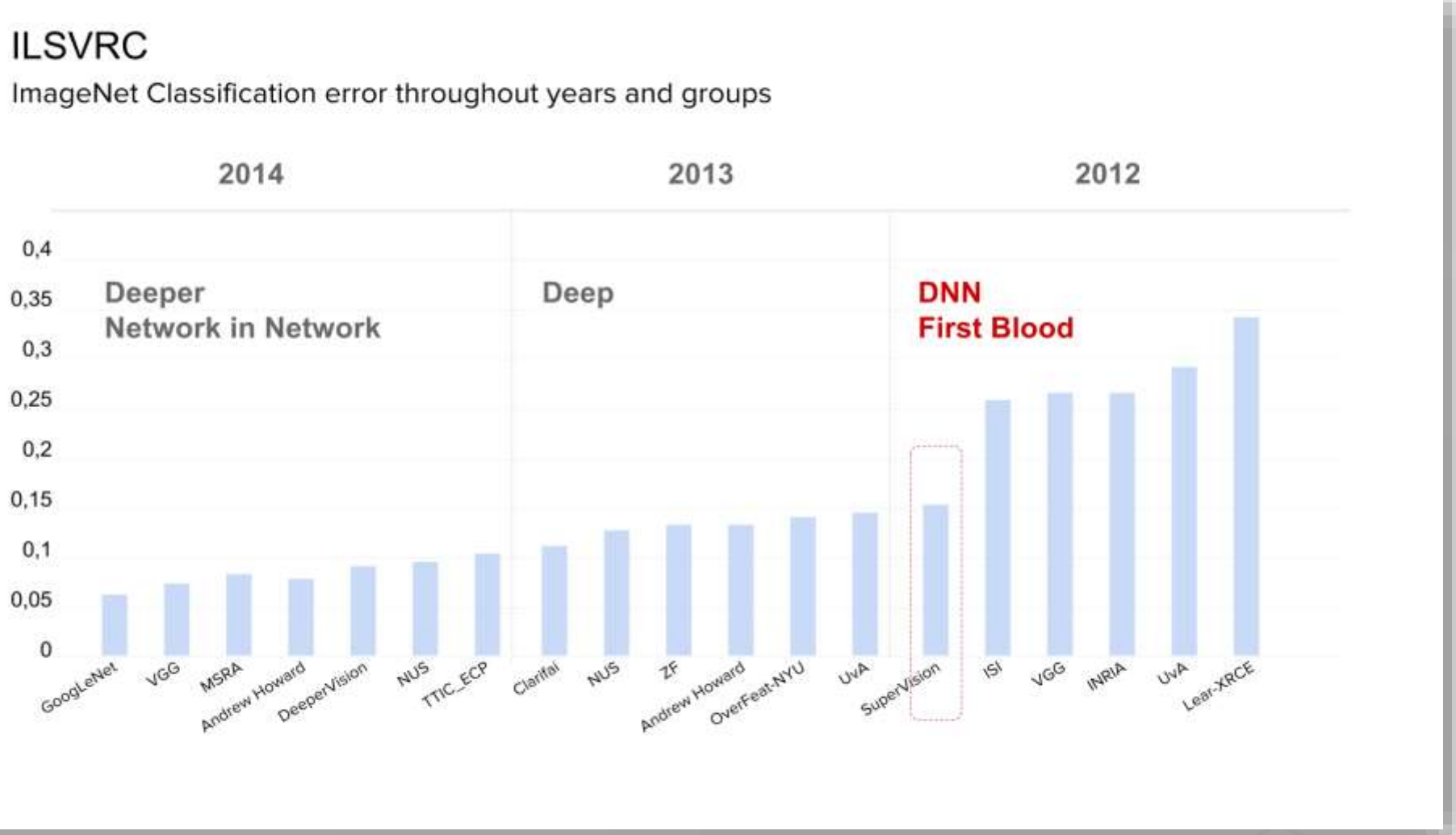
1990: UNDER COVER

Who says that there are no real-world applications for an AI paper?

[First | Prev | Next | Last]

DAGS Russian River outing. Page 17 of 22
Comments and suggestions welcome.

RISE OF DEEP LEARNING



Li Fei-Fei: ImageNet Large Scale Visual Recognition Challenge, 2014

MODERN HYPE


Technology
AI is the biggest risk we face as a civilisation, Elon Musk says
4 Comments
ial intelligence will
half of all jobs in the
ade, says widely
owed technologist
Sophia Yan
From the Magazine
USK'S BILLION-DOLLAR CRUSADE TO STOP THE A.I.
YPSE
famous for his futuristic gambles
cares him. And he
y's latest rush to embrace artificial
too. Inside his efforts to influence
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Life 3.0: Being Human in the Age of Artificial Intelligence
by Max Tegmark (Author)
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Amazon Charts #9 Most Sold
On the Threat of Artificial Intelligence
Stephen Hawking
Robots to replace humans in all
k within 120 years – and this
will do it
within 120 years according to
umans Obsolete?
The Real Threat of Artificial
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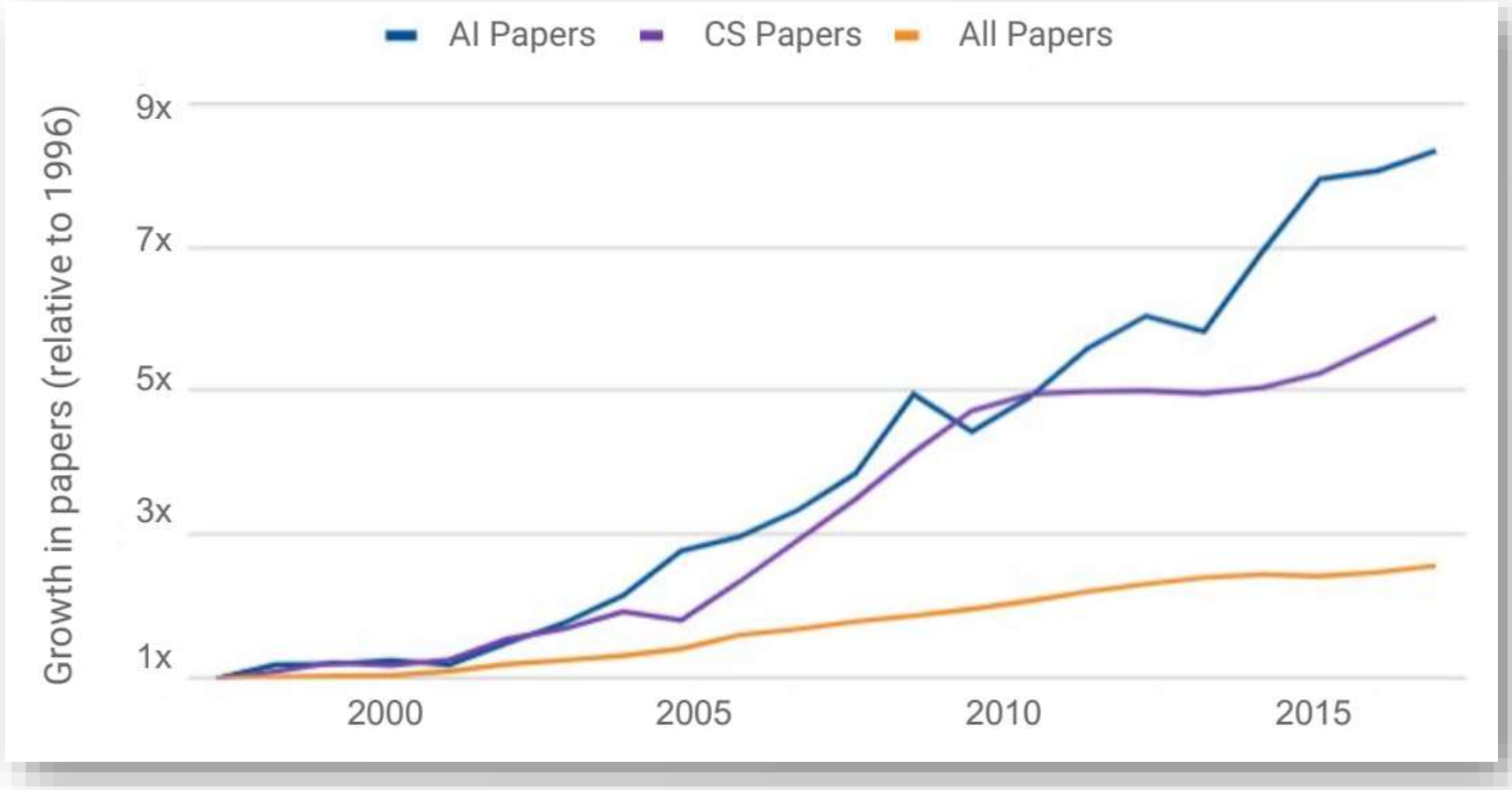
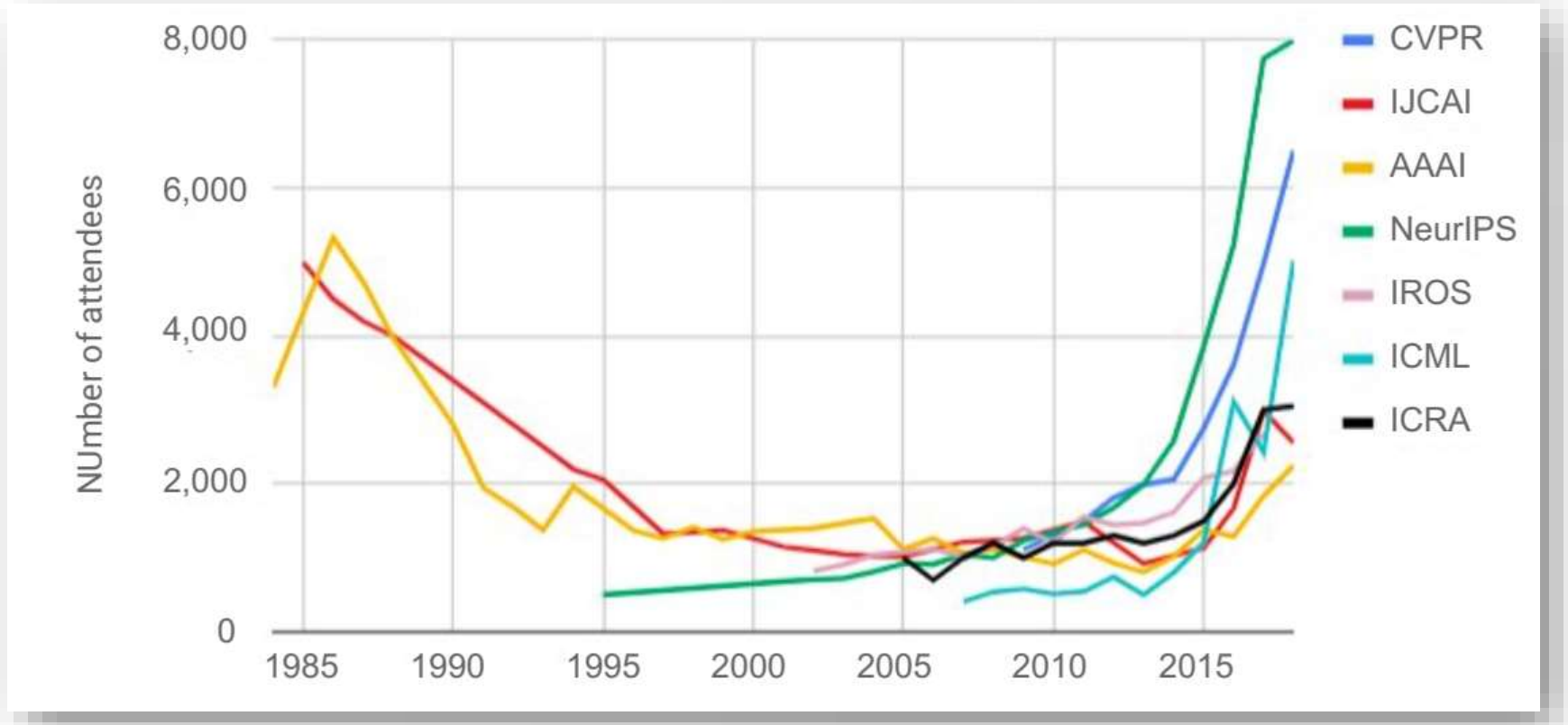
By KAI-FU LEE JUNE 24, 2017
Brent Morgan Follow
Founder of Transcendent Designs LLC
Feb 7 · 4 min read
Artificial Intelligence: Can it Replace Human Intelligence?


ALEXANDRE ROBICQUET
CHERCHEUR EN INTELLIGENCE ARTIFICIELLE
LE NOUVEAU PARFUM MASCULIN
YVES SAINT LAURENT

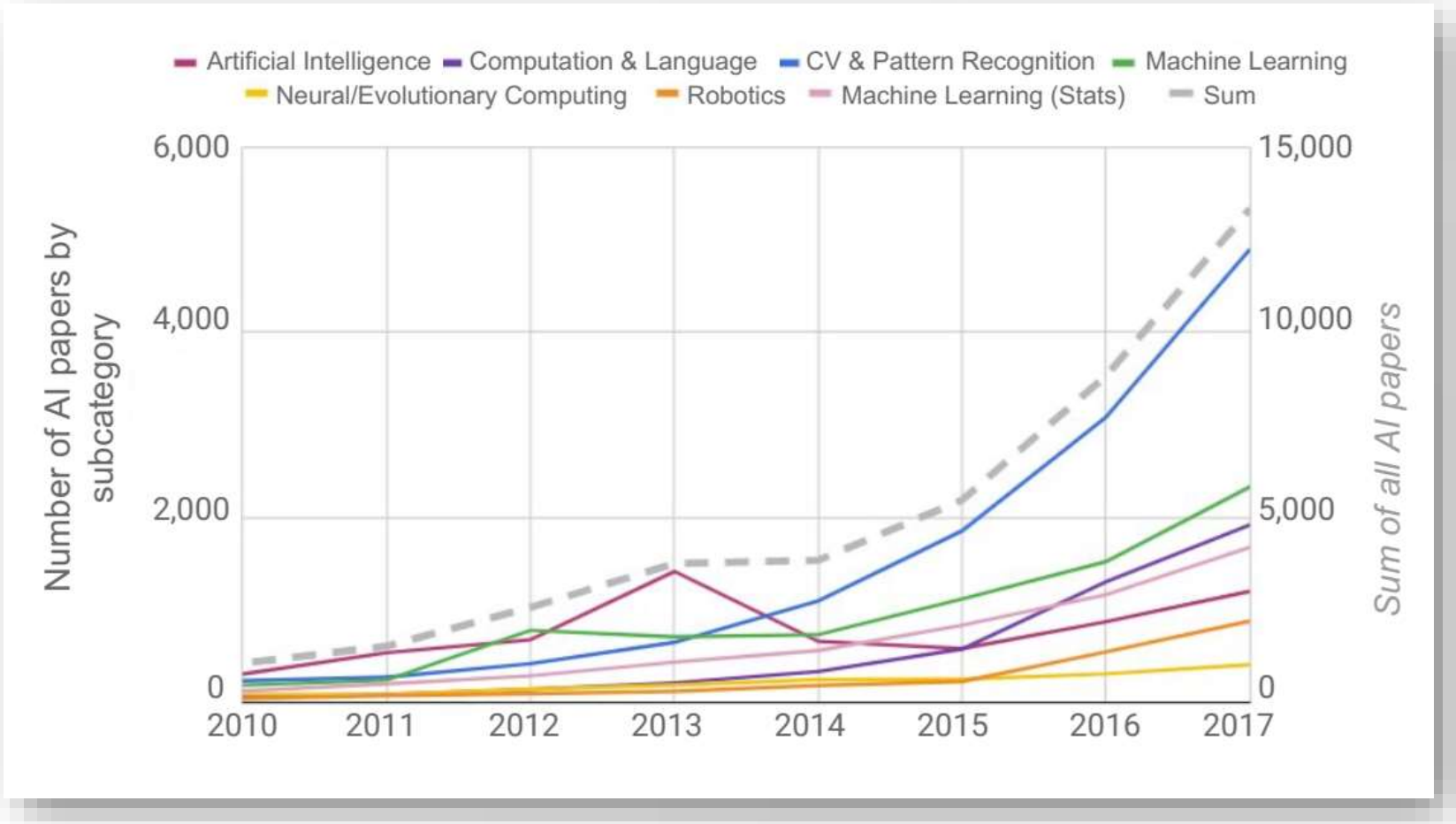
GROWTH OF ANNUALLY PUBLISHED PAPERS BY TOPIC (1996–2017)

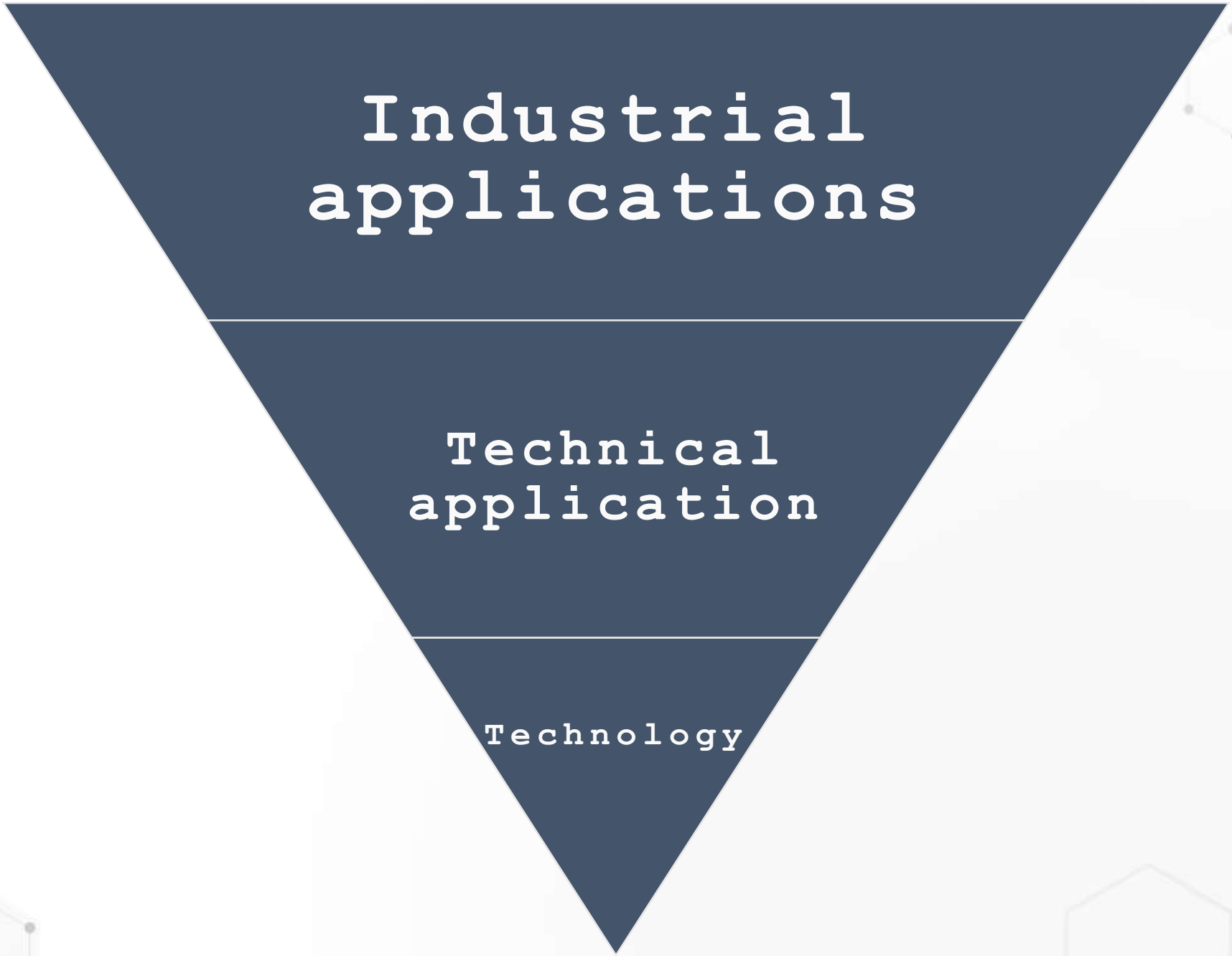


ATTENDANCE AT LARGE CONFERENCES (1984–2018)



NUMBER OF AI PAPERS ON ARXIV BY SUBCATEGORY (2010–2017)




Industrial applications
Technical application
Technology

TECHNICAL APPLICATIONS BY AI INDEX 2018

Vision

- Object detection
- Object segmentation
- *Object generation?*

Language

- Parsing
- Machine translation
- Question answering
- General language understanding evaluation (GLUE)

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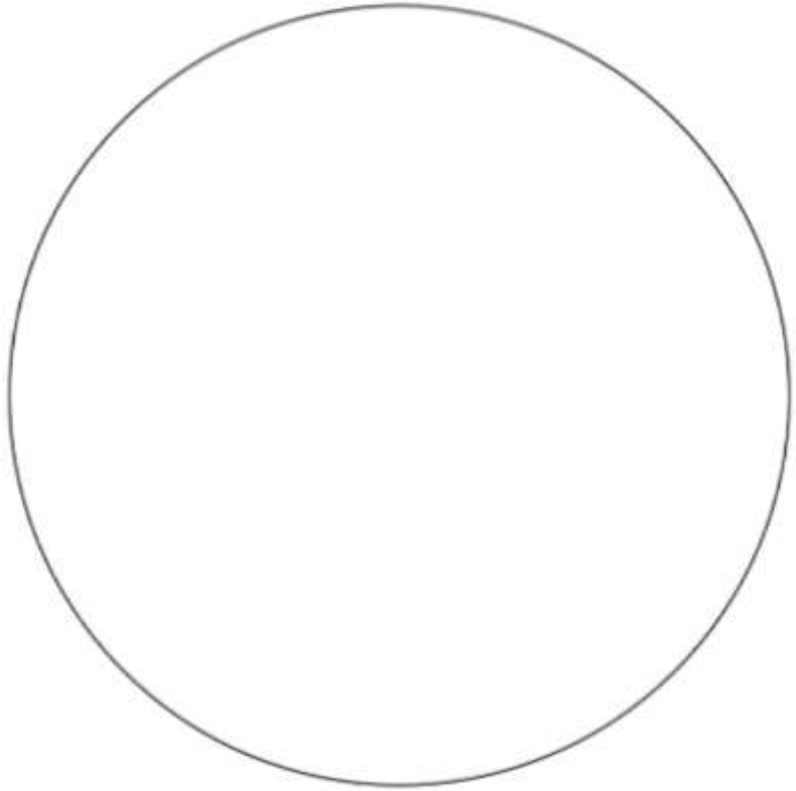
BY MATT MIGHT

Imagine a circle that contains all of human knowledge:



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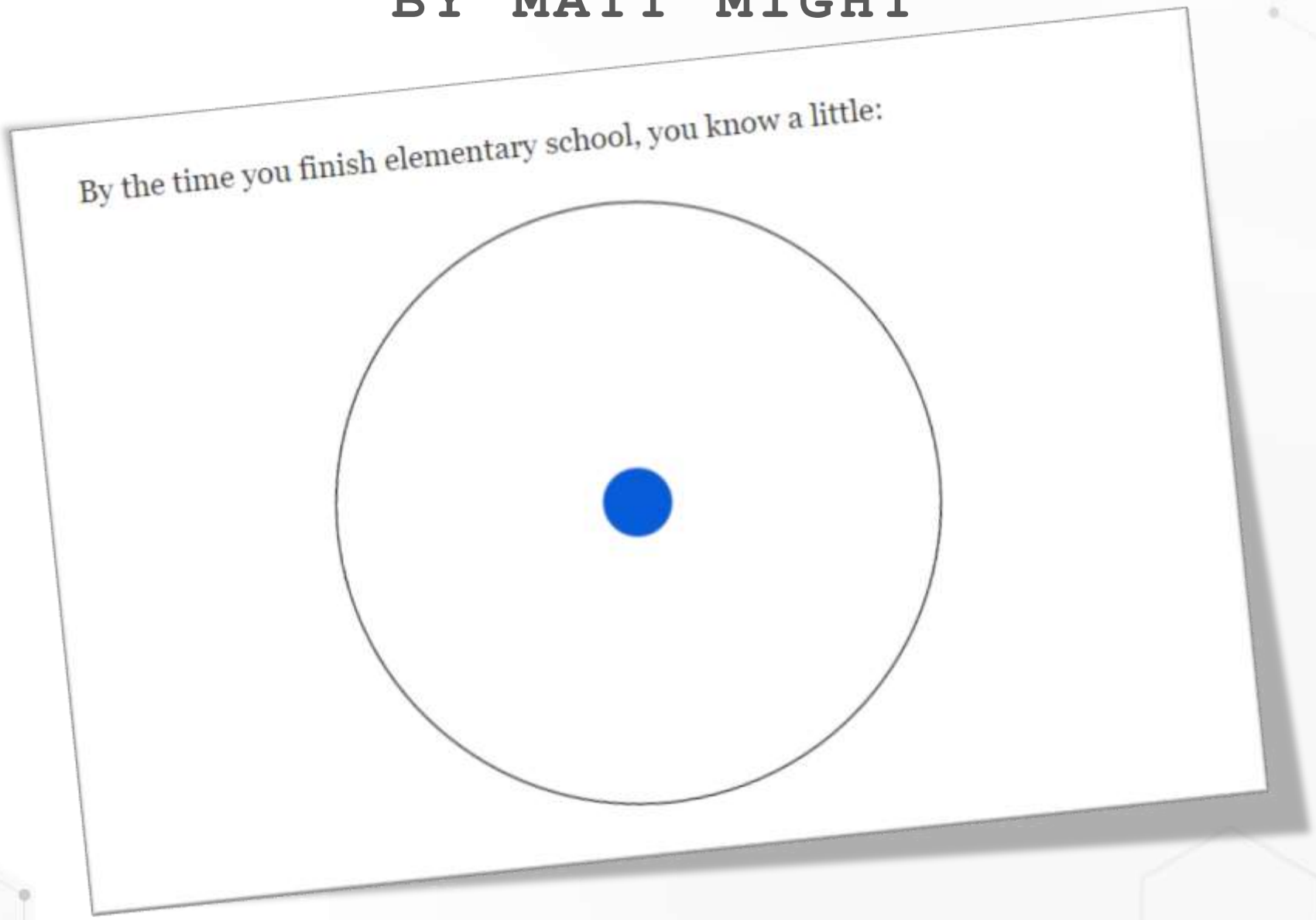

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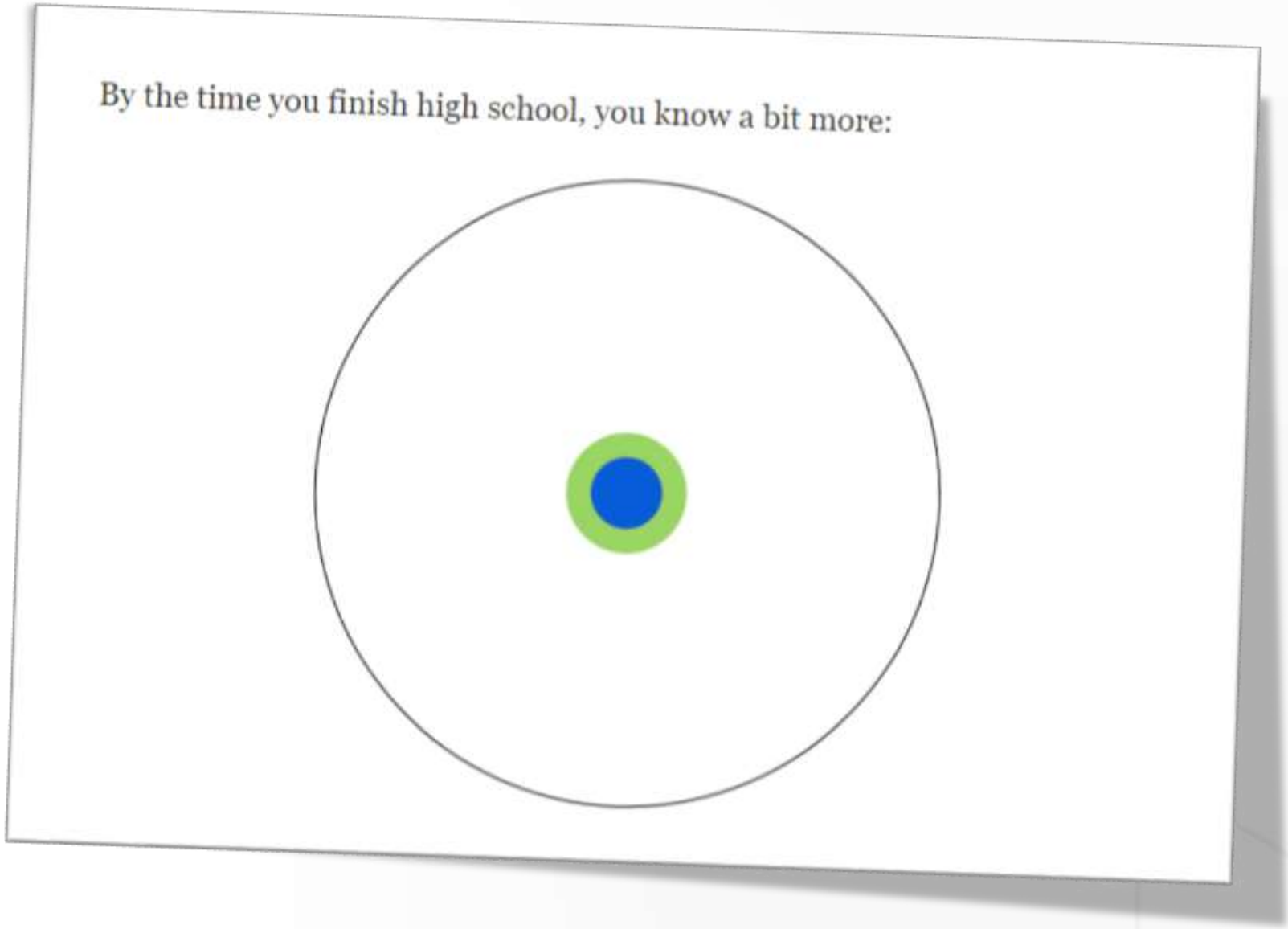

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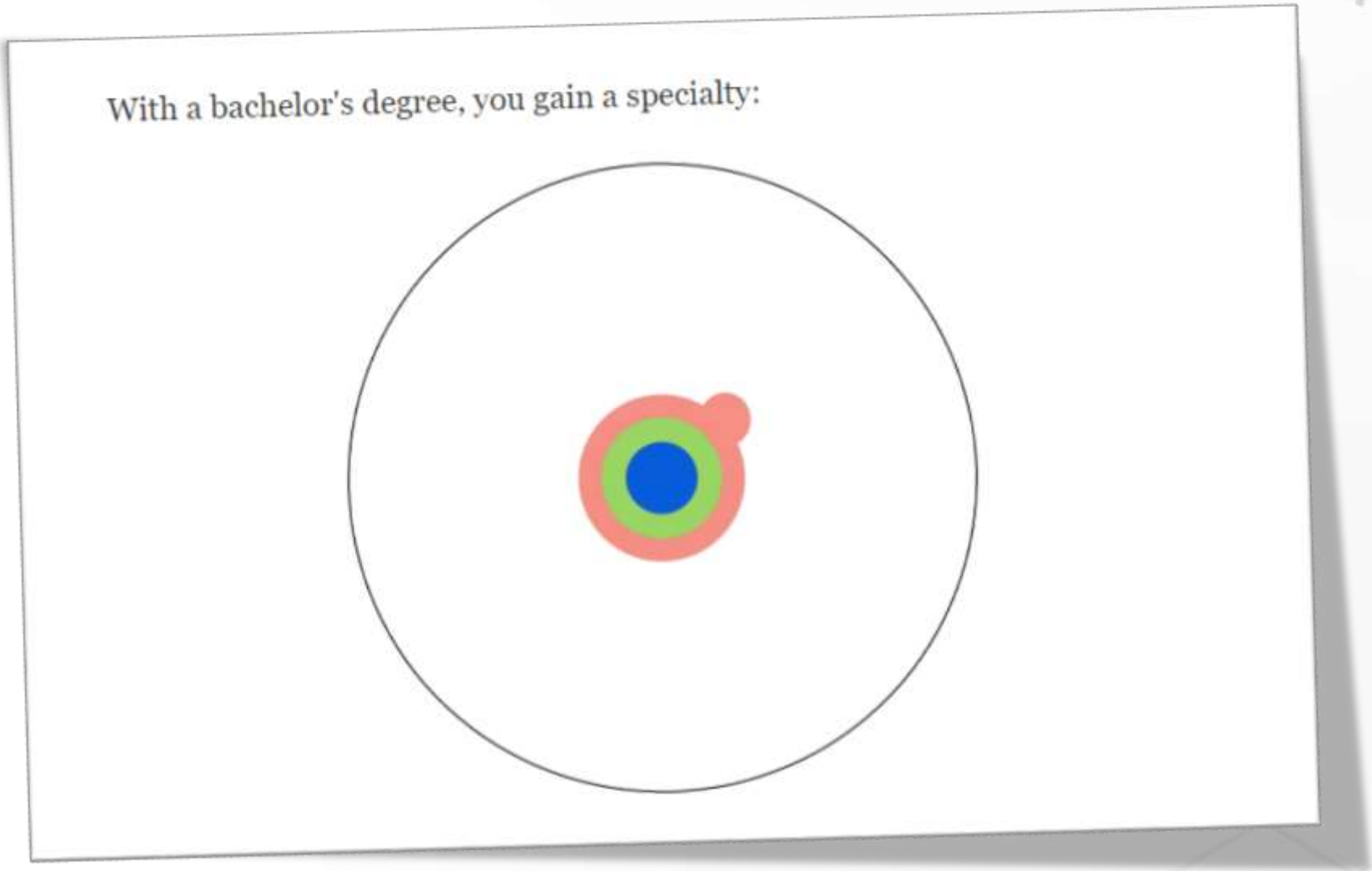

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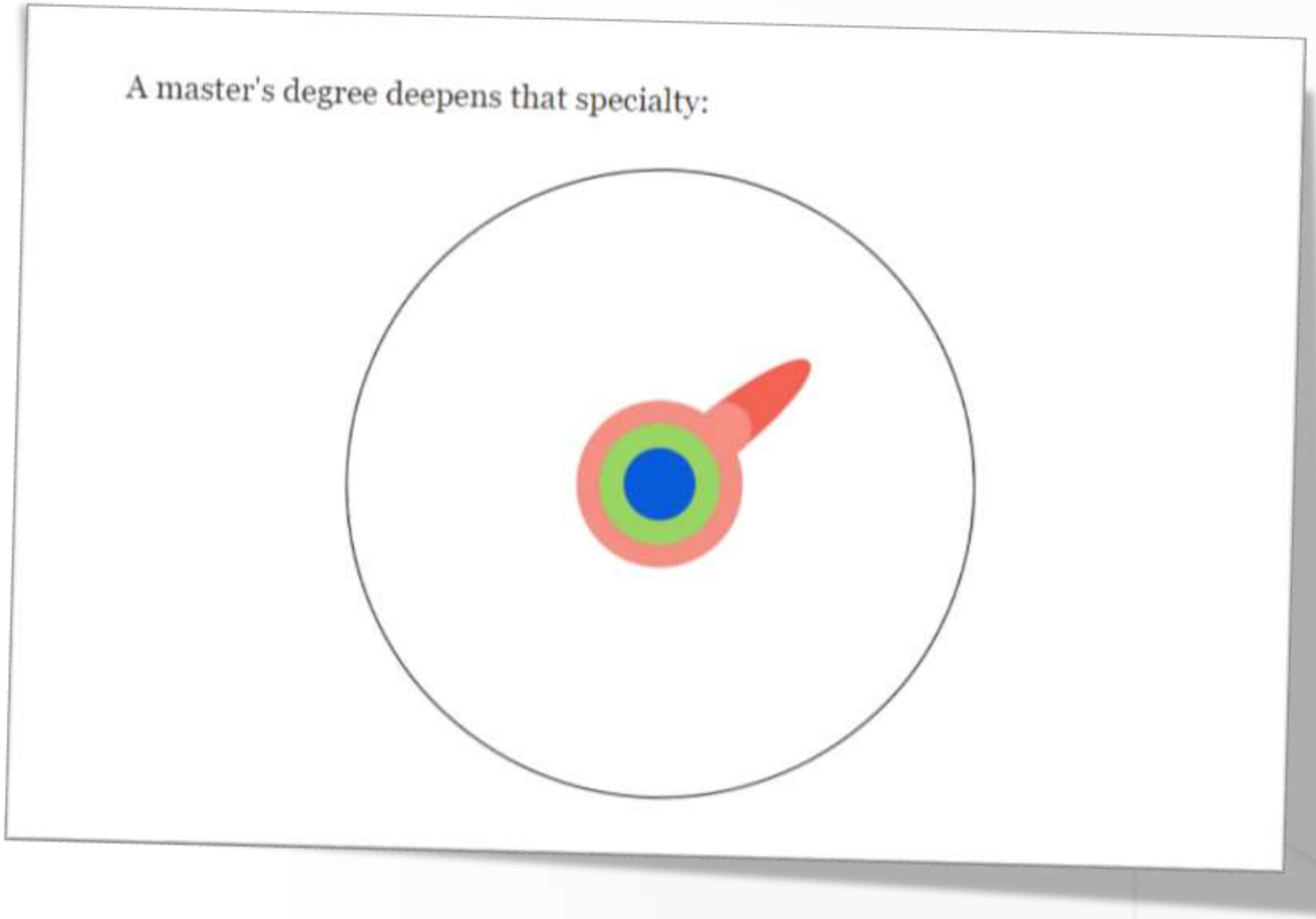

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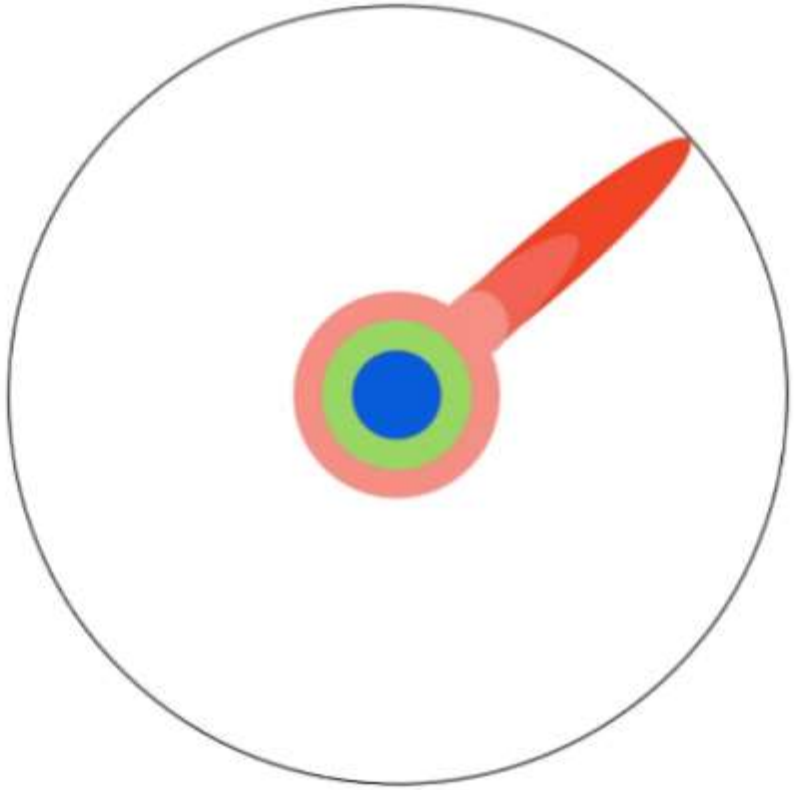
Reading research papers takes you to the edge of human knowledge:



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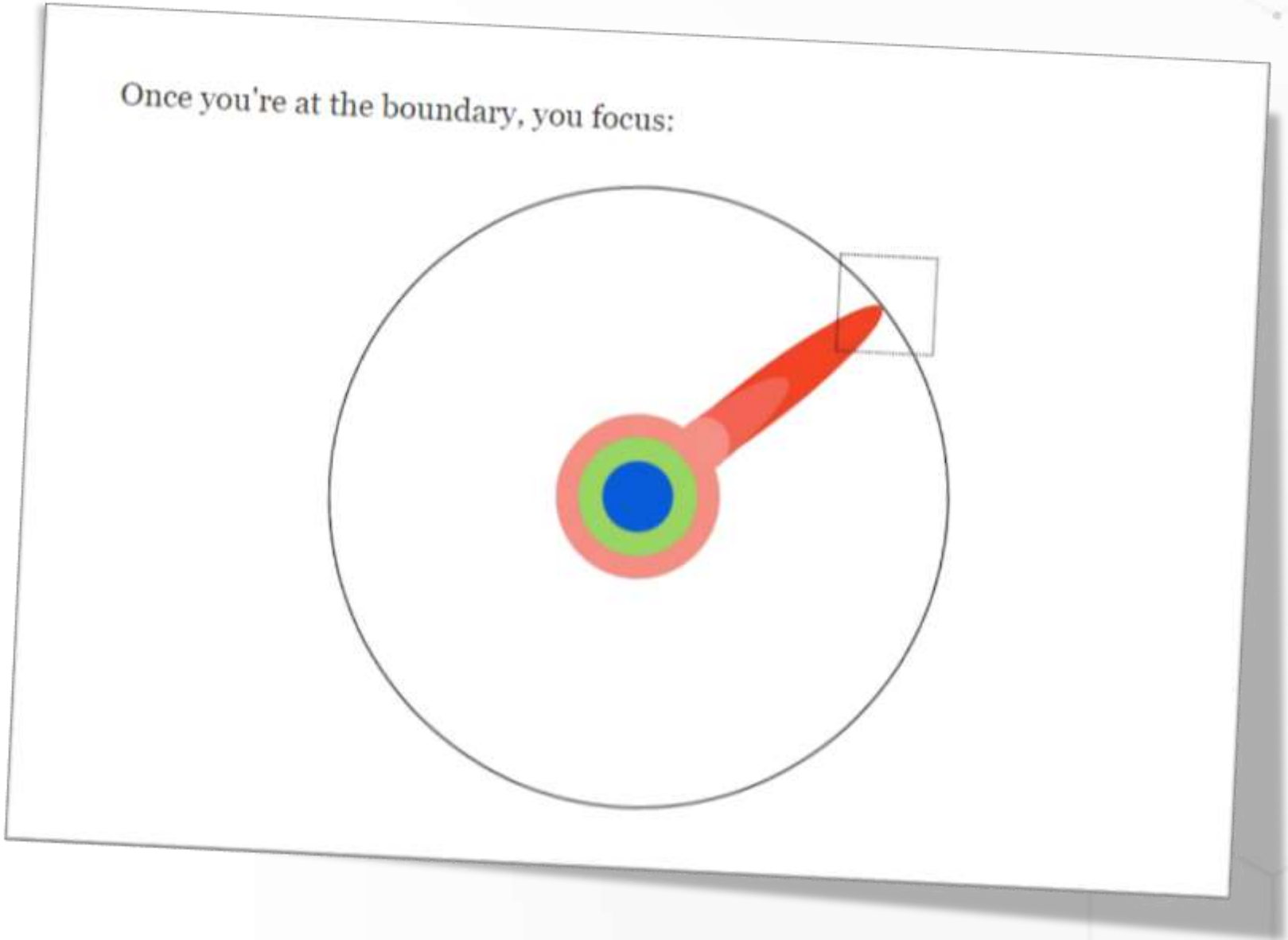

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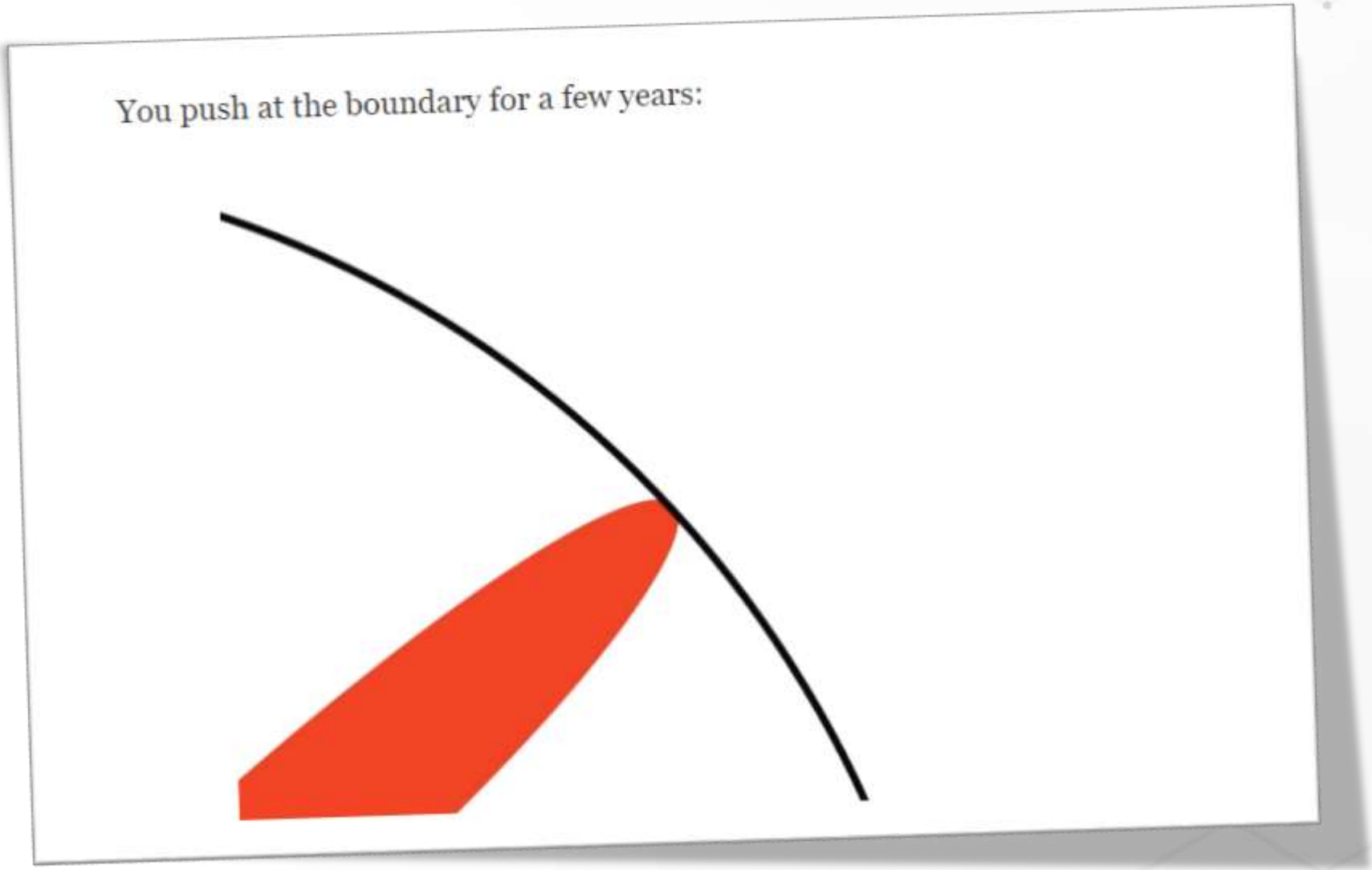

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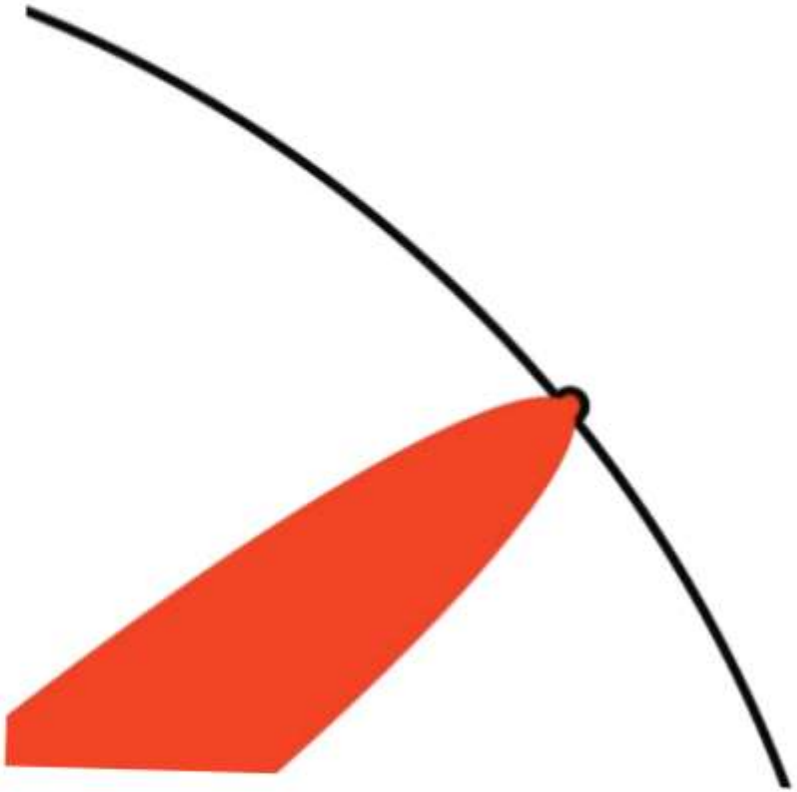
Until one day, the boundary gives way:



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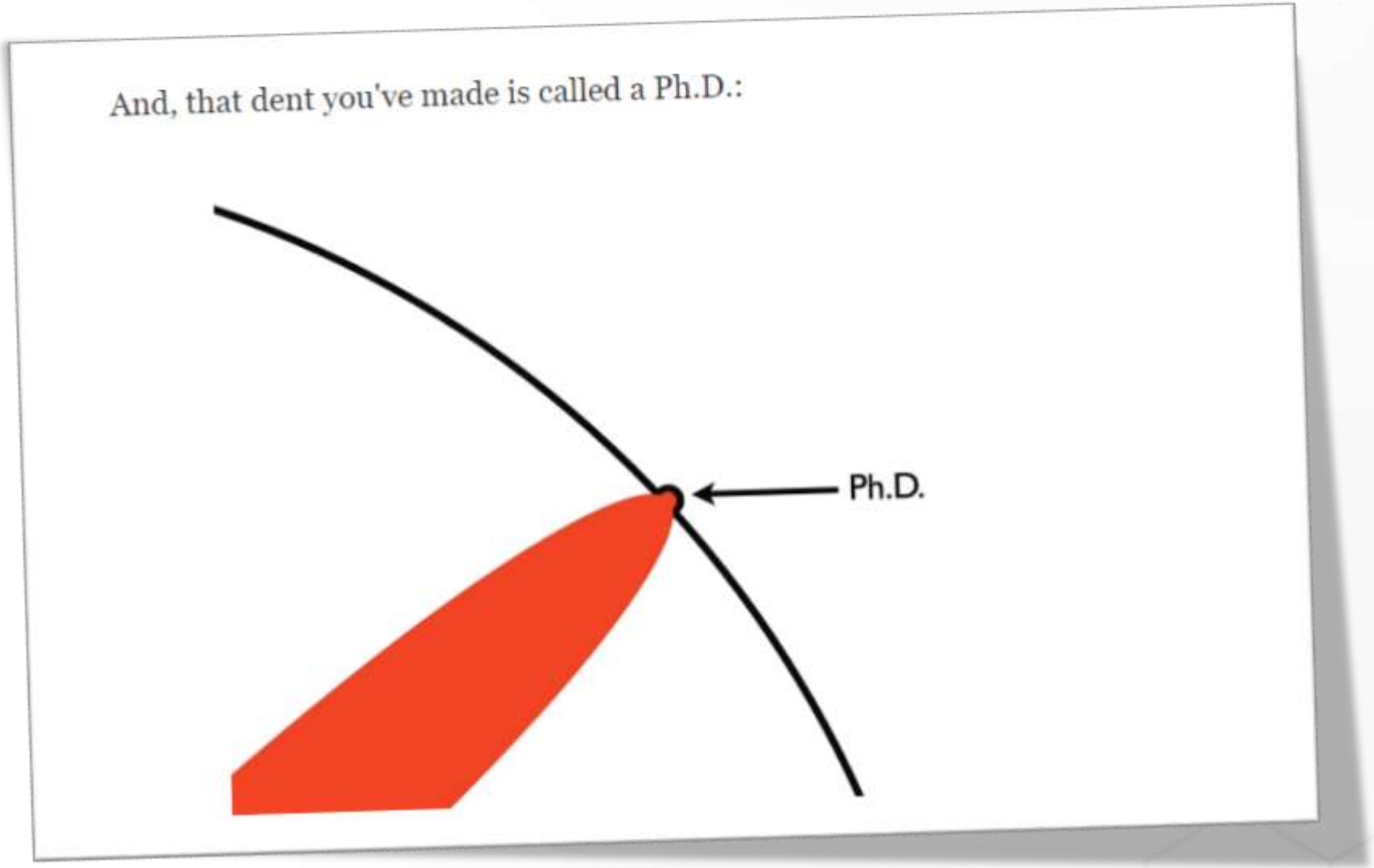

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Of course, the world looks different to you now:

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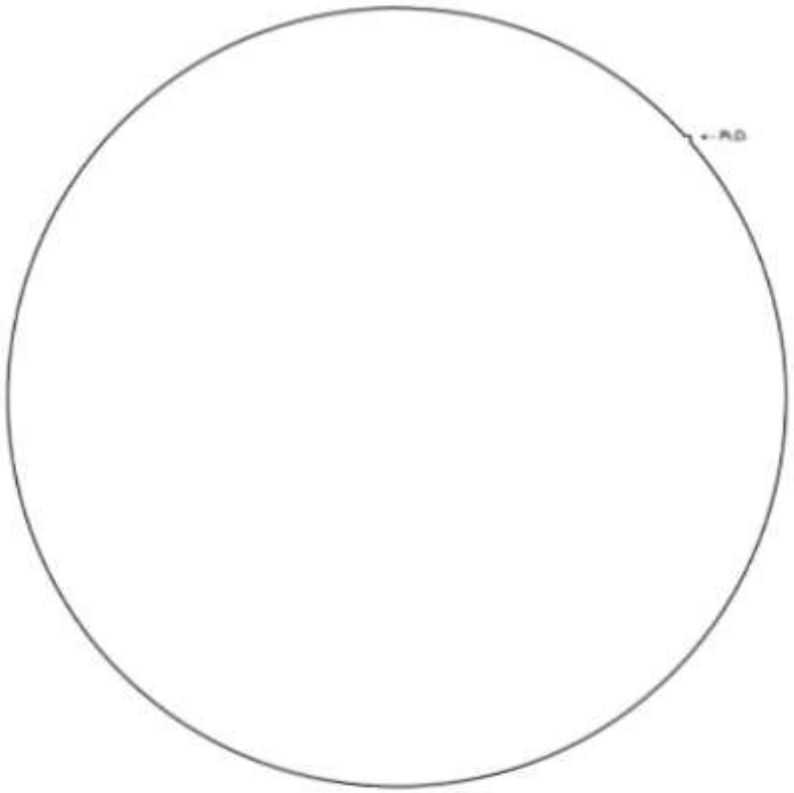
So, don't forget the bigger picture:

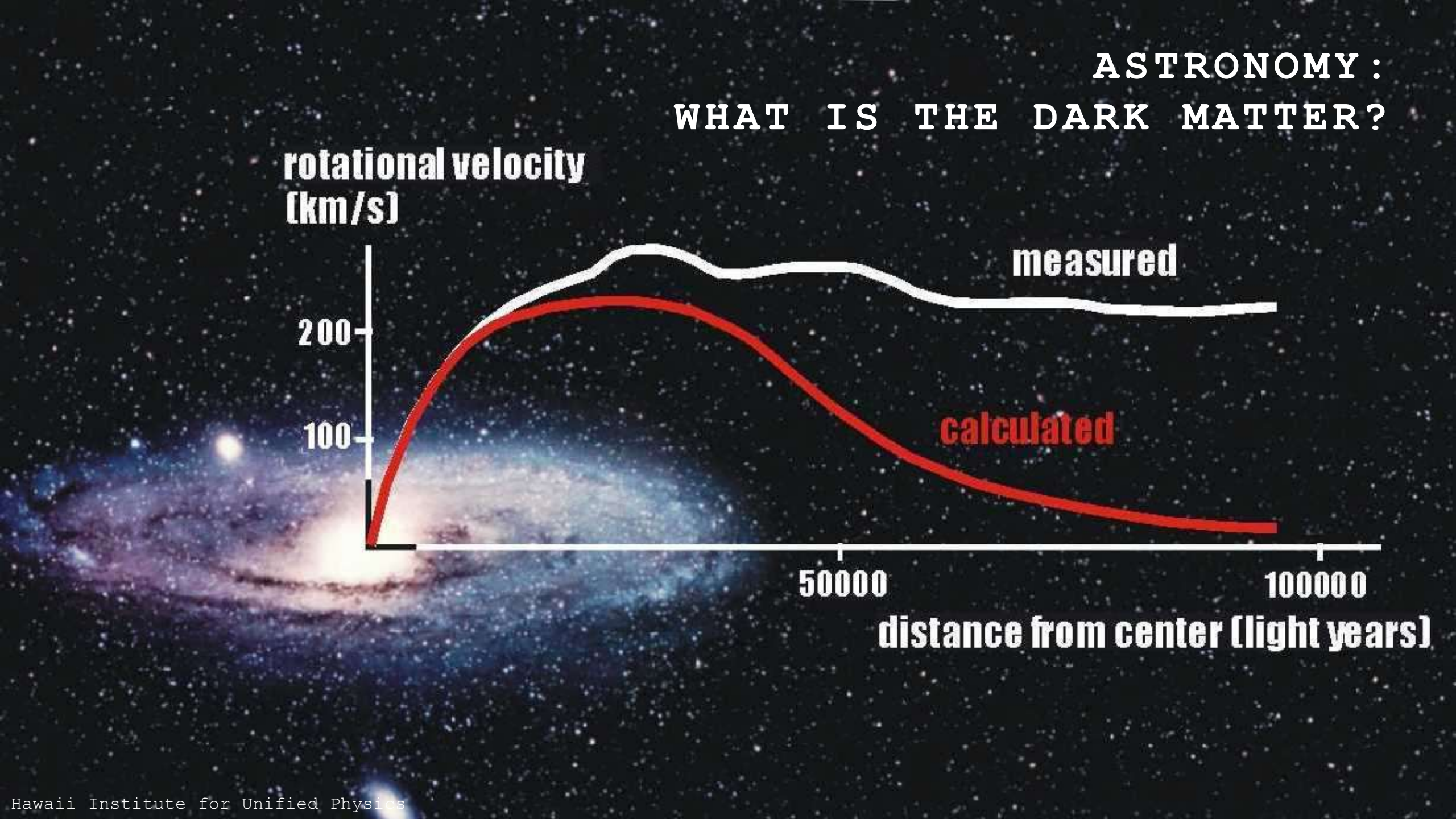


… BECAUSE IT'S COOL

… BECAUSE IT'S COOL

… BECAUSE IT IS EASY

ASTRONOMY:
WHAT IS THE DARK MATTER?

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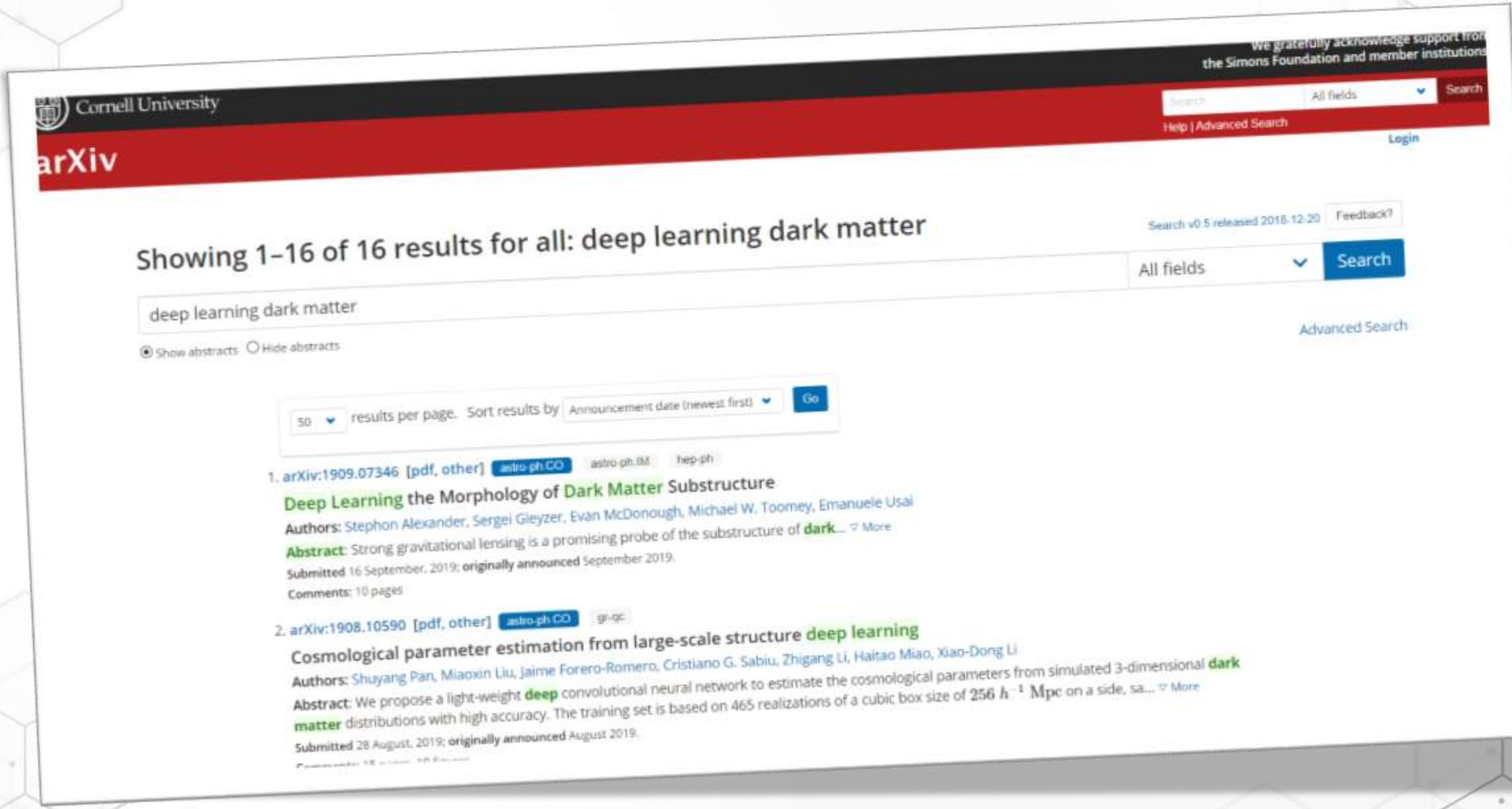
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1. arXiv:1909.07346 [pdf, other]
astro-ph.CO
astro-ph.IM
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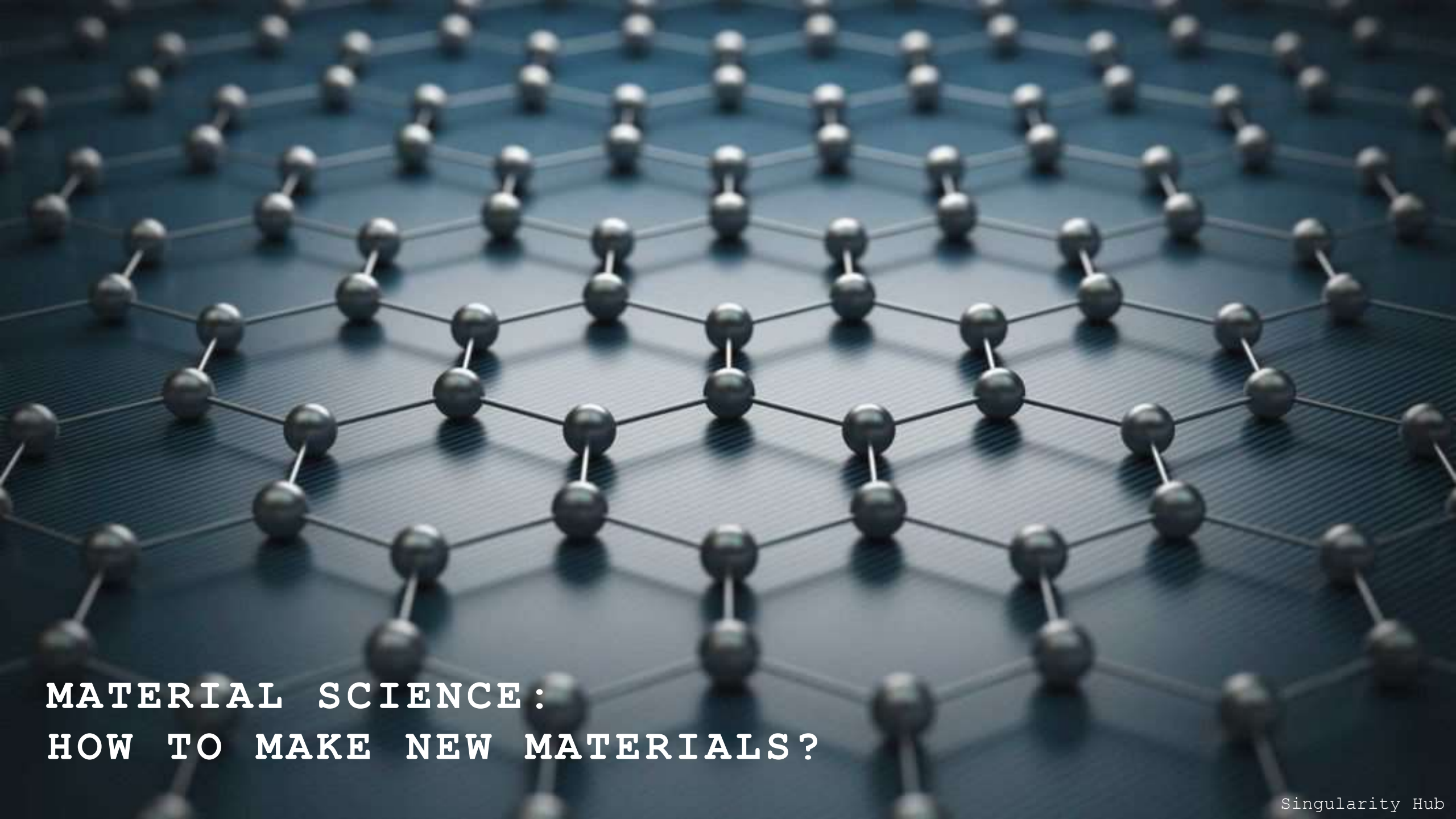
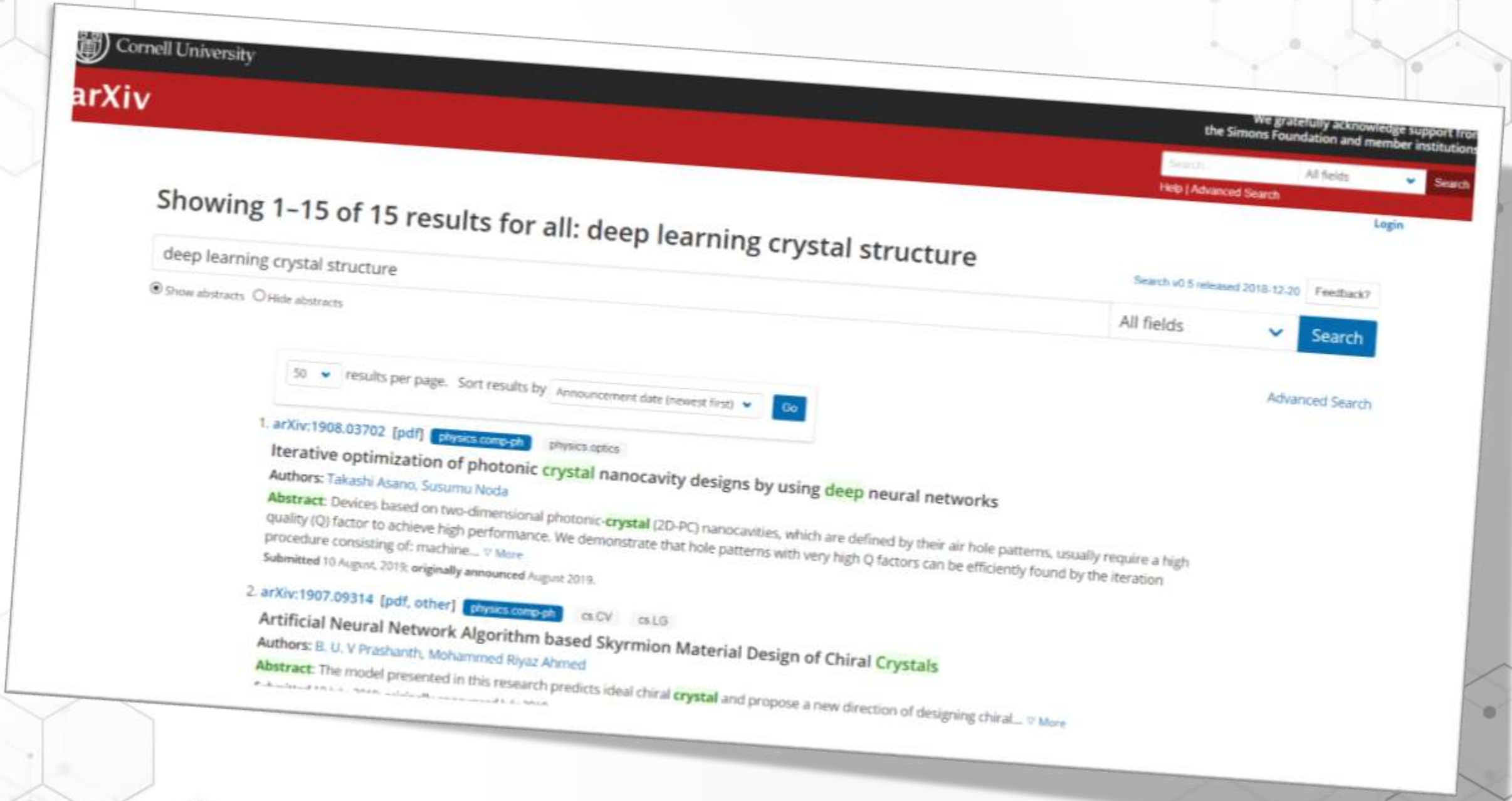
Deep Learning the Morphology of Dark Matter Substructure
Authors: Stephon Alexander, Sergei Gleyzer, Evan McDonough, Michael W. Toomey, Emanuele Usai
Abstract: Strong gravitational lensing is a promising probe of the substructure of dark... More
Submitted 16 September, 2019; originally announced September 2019.
Comments: 10 pages
2. arXiv:1908.10590 [pdf, other]
astro-ph.CO
gr-qc
Cosmological parameter estimation from large-scale structure deep learning
Authors: Shuyang Pan, Miaoxin Liu, Jaime Forero-Romero, Cristiano G. Sabiu, Zhigang Li, Haitao Miao, Xiao-Dong Li
Abstract: We propose a light-weight deep convolutional neural network to estimate the cosmological parameters from simulated 3-dimensional dark matter distributions with high accuracy. The training set is based on 465 realizations of a cubic box size of 256 h^{-1} Mpc on a side, sa... More
Submitted 28 August, 2019; originally announced August 2019.



MATERIAL SCIENCE:
HOW TO MAKE NEW MATERIALS?

Singularity Hub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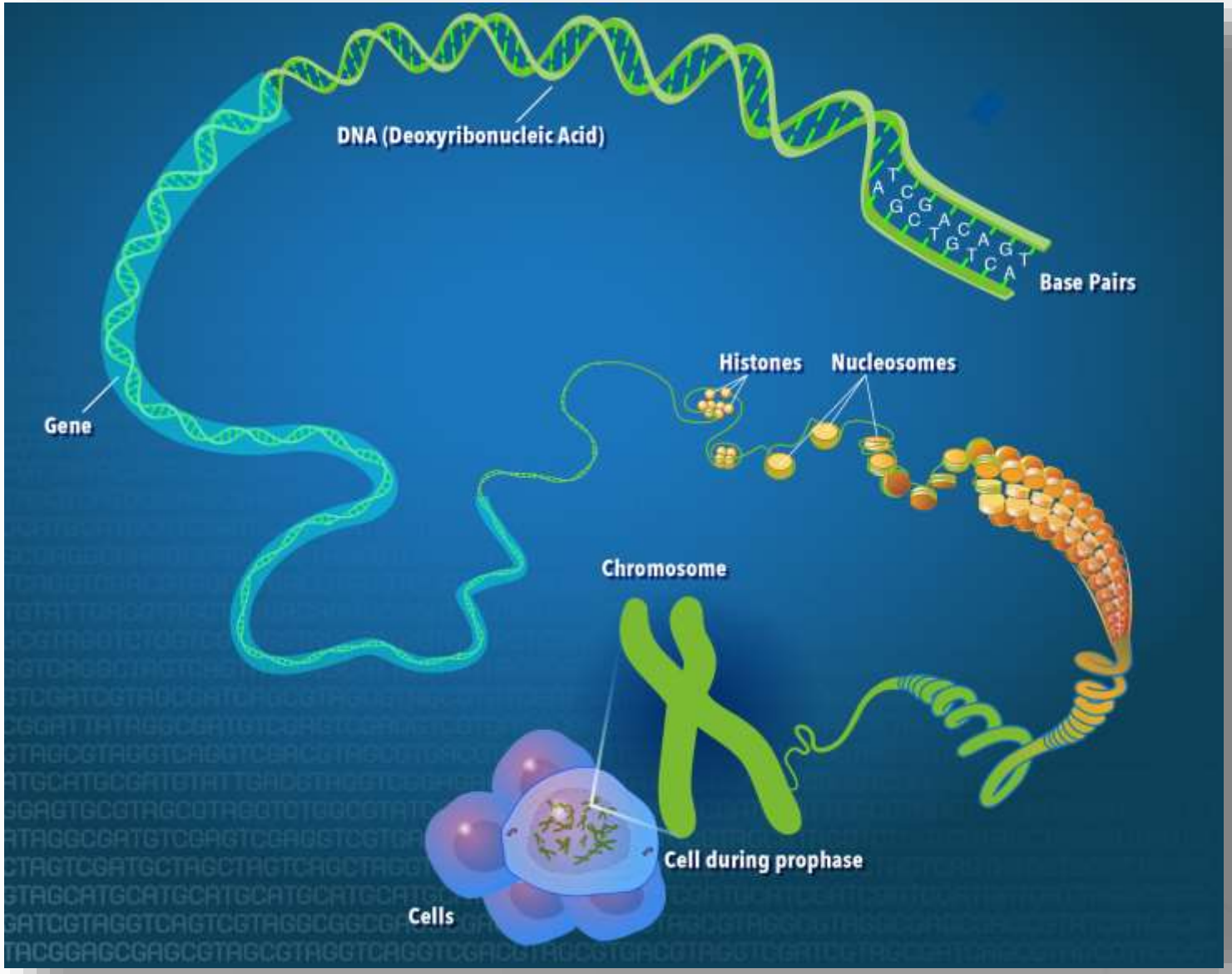
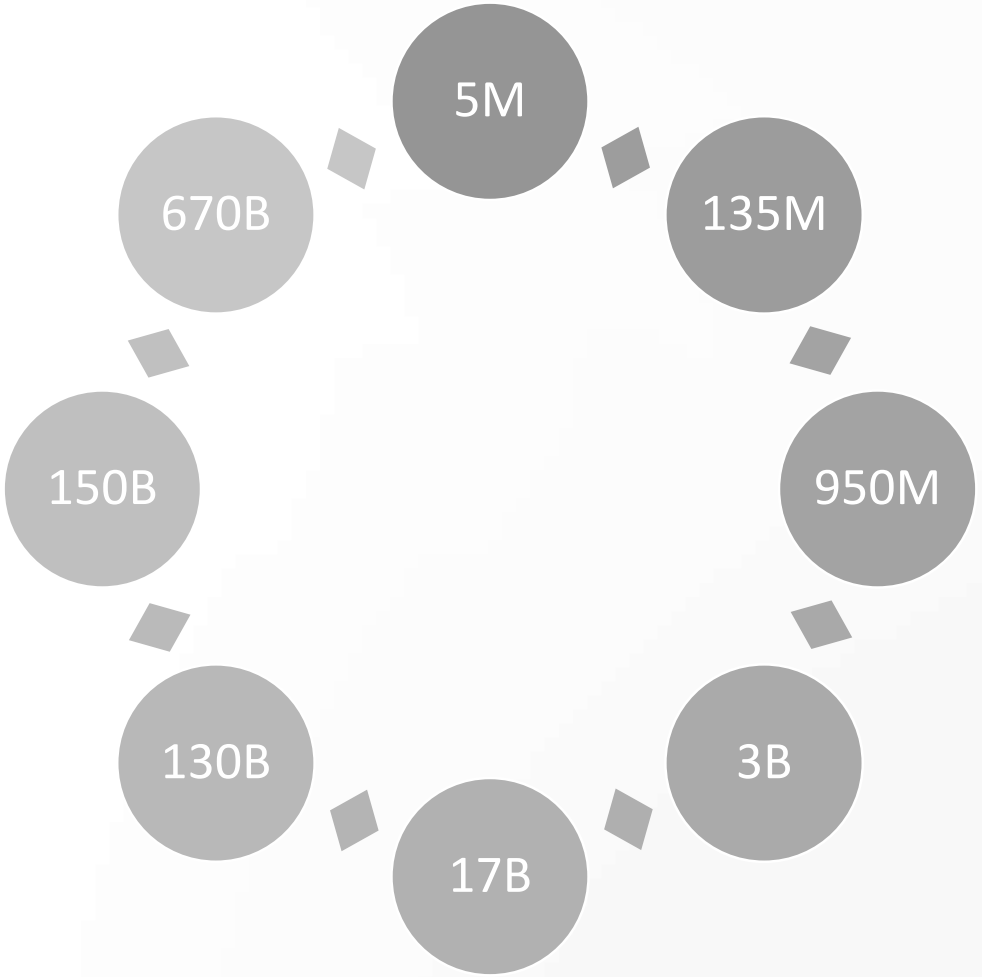
1. arXiv:1908.03702 [pdf] physics.comp-ph physics.optics
Iterative optimization of photonic crystal nanocavity designs by using deep neural networks
Authors: Takashi Asano, Susumu Noda
Abstract: Devices based on two-dimensional photonic-crystal (2D-PC) nanocavities, which are defined by their air hole patterns, usually require a high quality (Q) factor to achieve high performance. We demonstrate that hole patterns with very high Q factors can be efficiently found by the iteration procedure consisting of: machine... More
Submitted 10 August, 2019; originally announced August 2019.
2. arXiv:1907.09314 [pdf, other] physics.comp-ph cs.CV cs.LG
Artificial Neural Network Algorithm based Skyrmion Material Design of Chiral Crystals
Authors: B. U. V Prashanth, Mohammed Riyaz Ahmed
Abstract: The model presented in this research predicts ideal chiral crystal and propose a new direction of designing chiral... More

BIOLOGY:
HOW DOES A GENOME WORK?

WHAT IS GENOME?





Polychaos dubium

Wheat

Marbled lungfish

Tomato

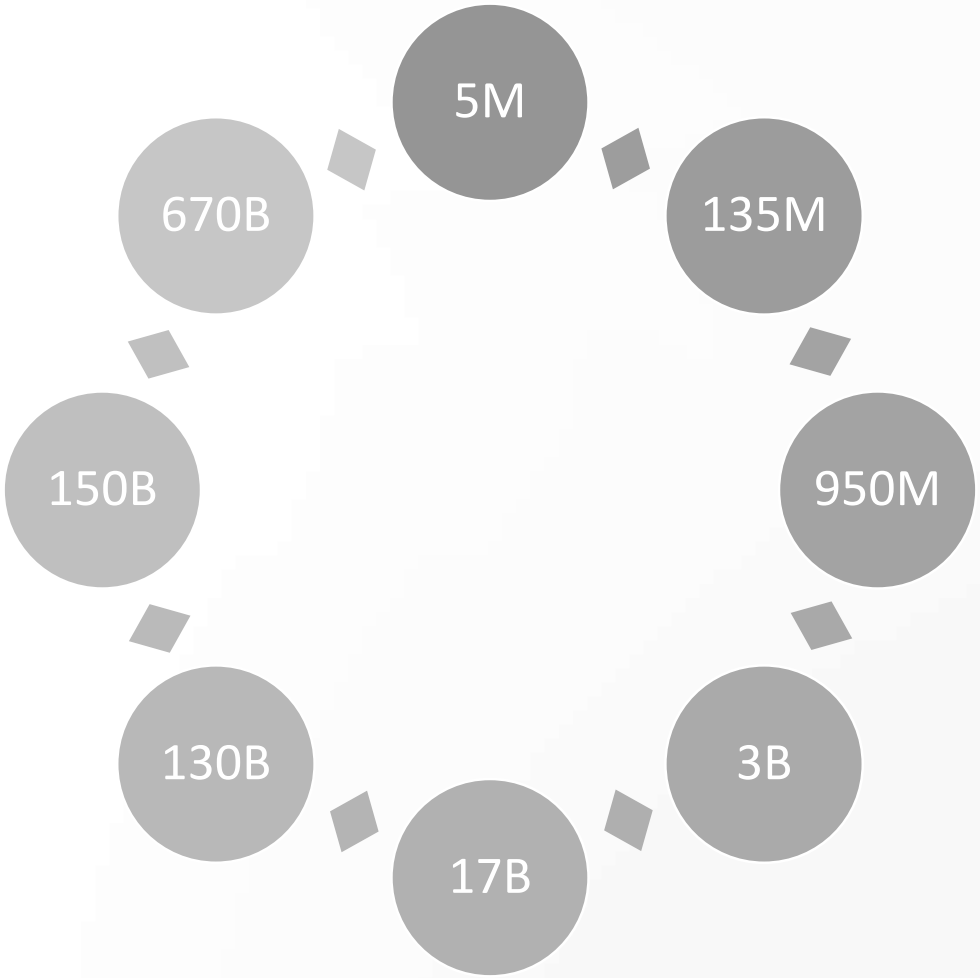
Paris japonica

Human

Arabidopsis thaliana

Escherichia coli

Escherichia coli



Polychaos dubium

Wheat

Marbled lungfish

Tomato

Paris japonica

Human

Arabidopsis thaliana

Escherichia coli

Arabidopsis thaliana

Polychaos dubium

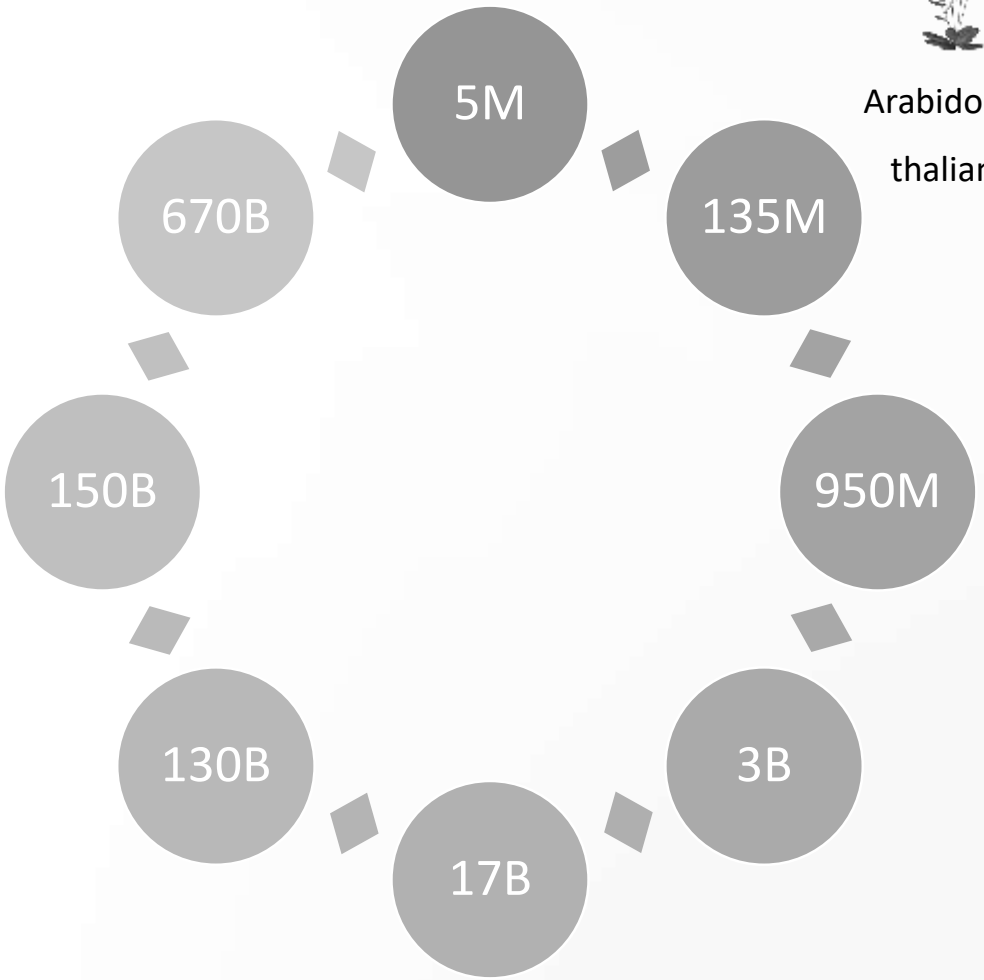
Paris japonica

Wheat

Human

Marbled lungfish

Tomato



Escherichia coli

Arabidopsis thaliana

5M

135M

950M

3B

17B

130B

150B

670B

Polychaos dubium

Wheat

Marbled lungfish

Tomato

Paris japonica

Human

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Polychaos dubium

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Tomato

Human

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Tomato

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Human

17B

Wheat

130B

Marbled lungfish

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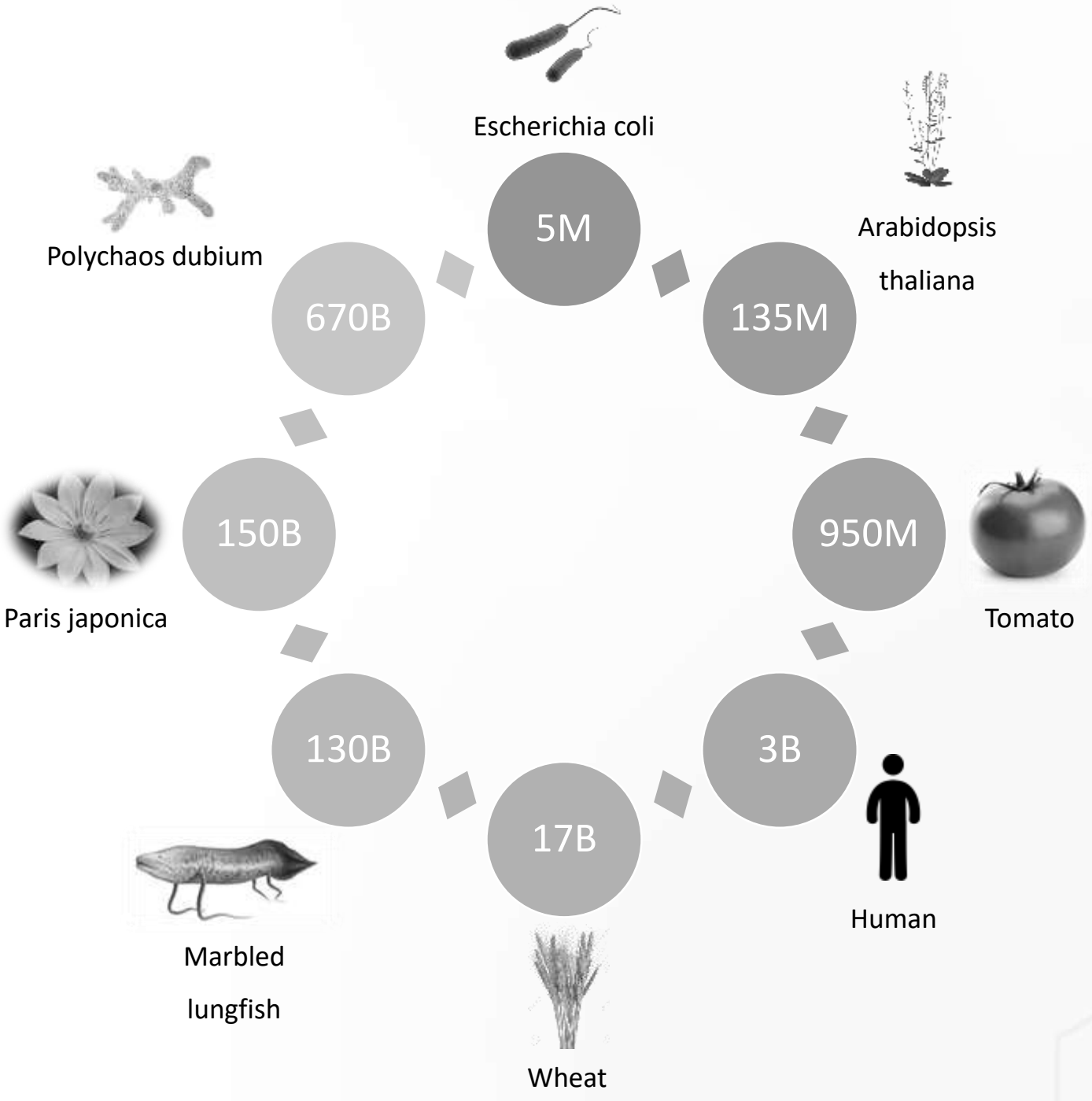
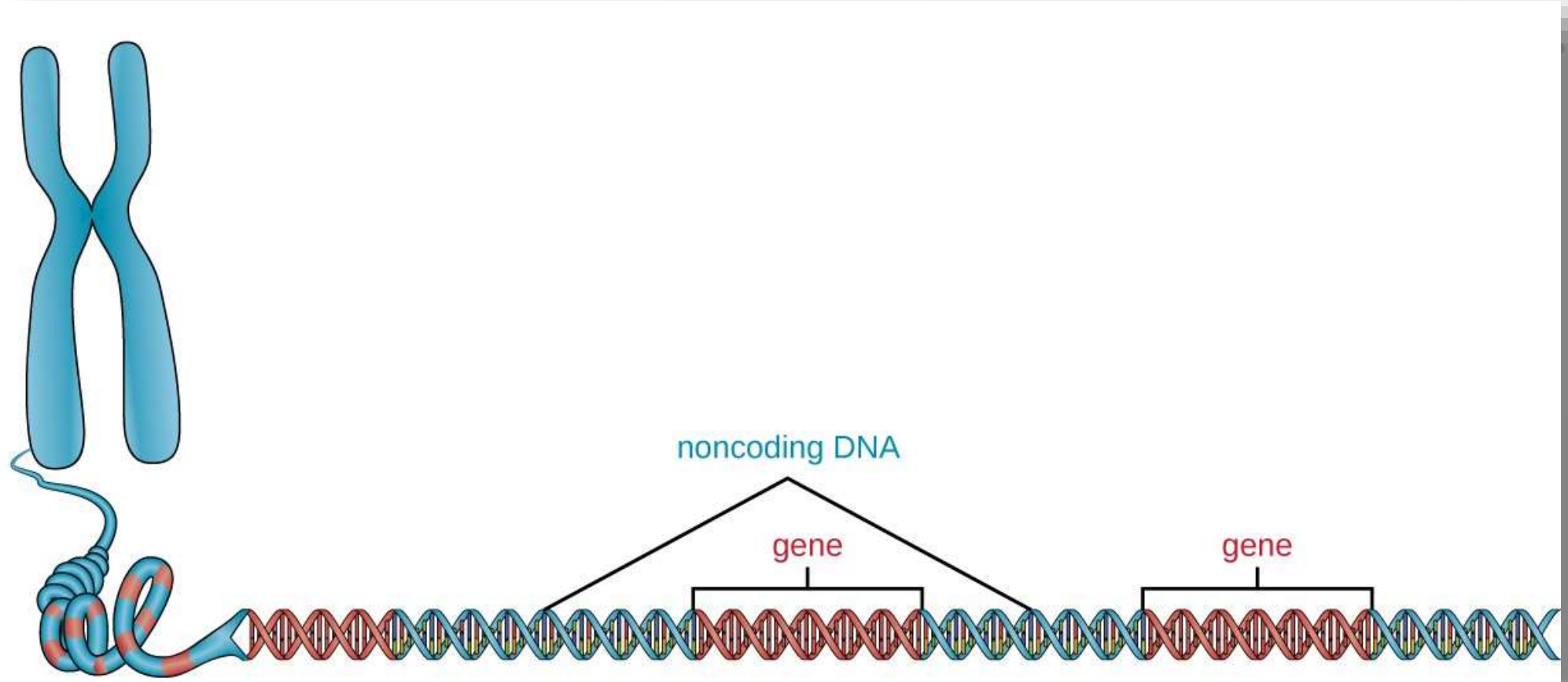
Paris japonica

670B

Polychaos dubium


Escherichia coli
5M
Arabidopsis thaliana
135M
Polychaos dubium
670B
950M
Tomato
150B
Paris japonica
130B
3B
Human
17B
Marbled lungfish
Wheat

CODING AND NON-CODING PARTS



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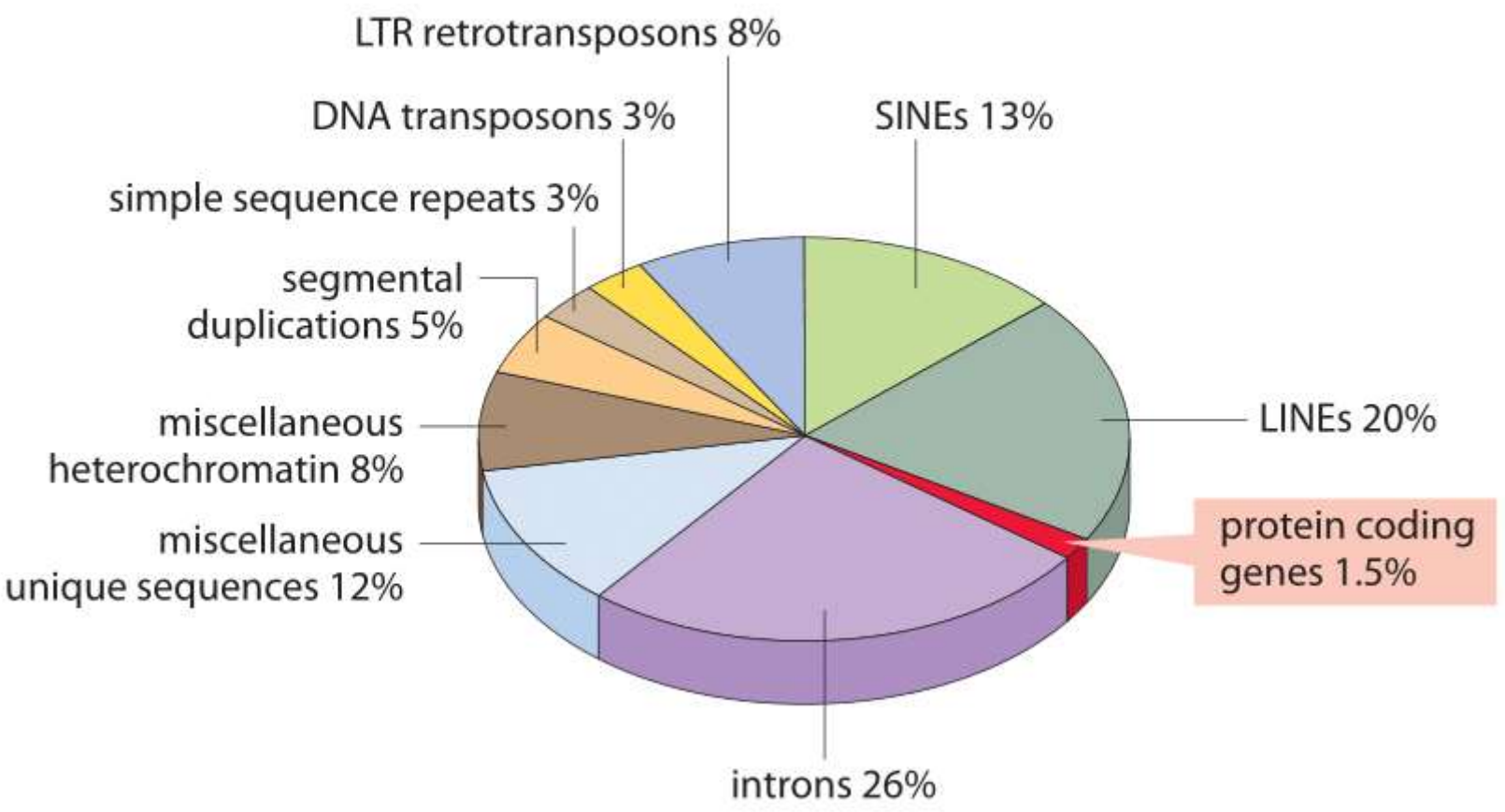

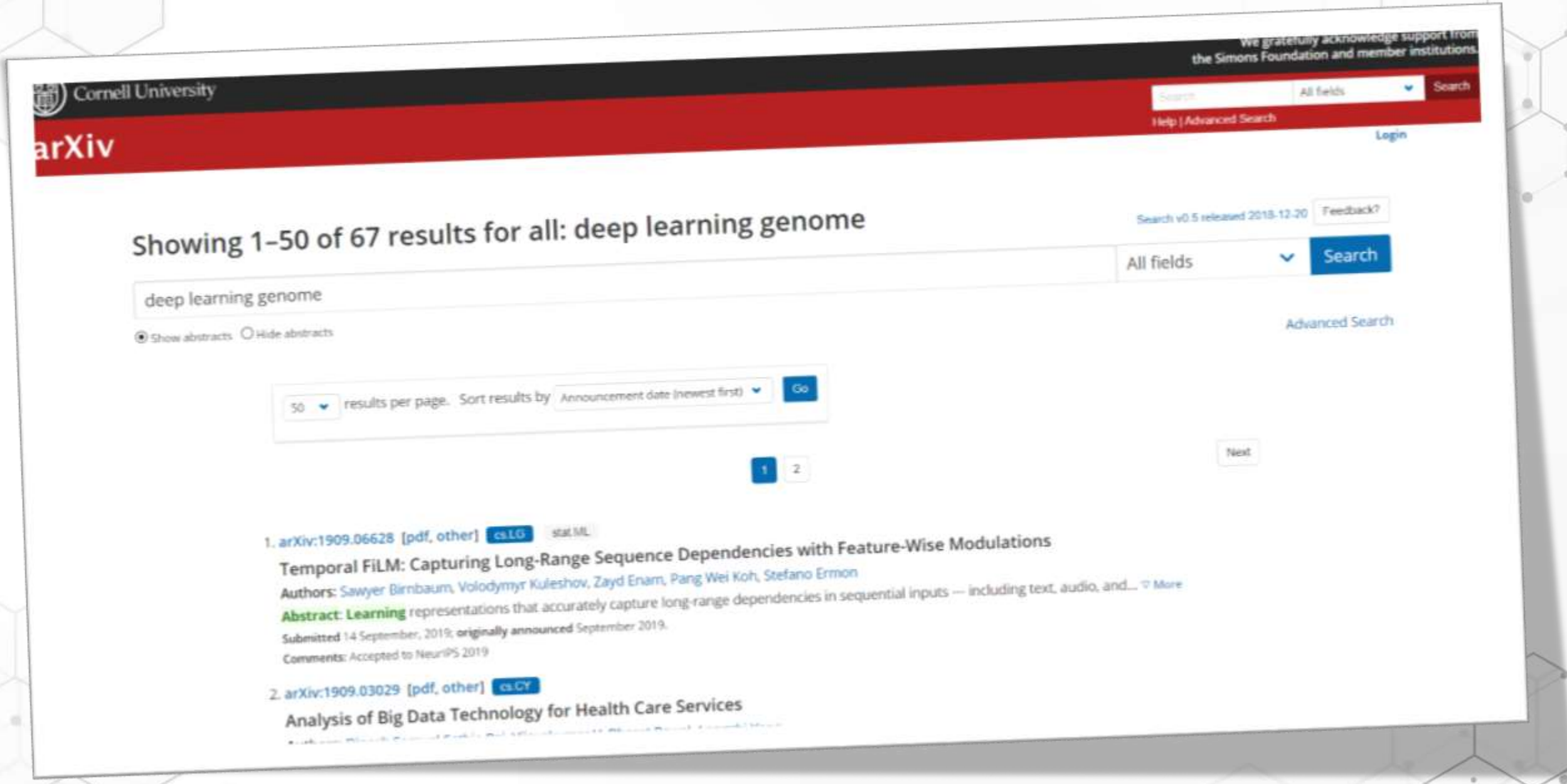
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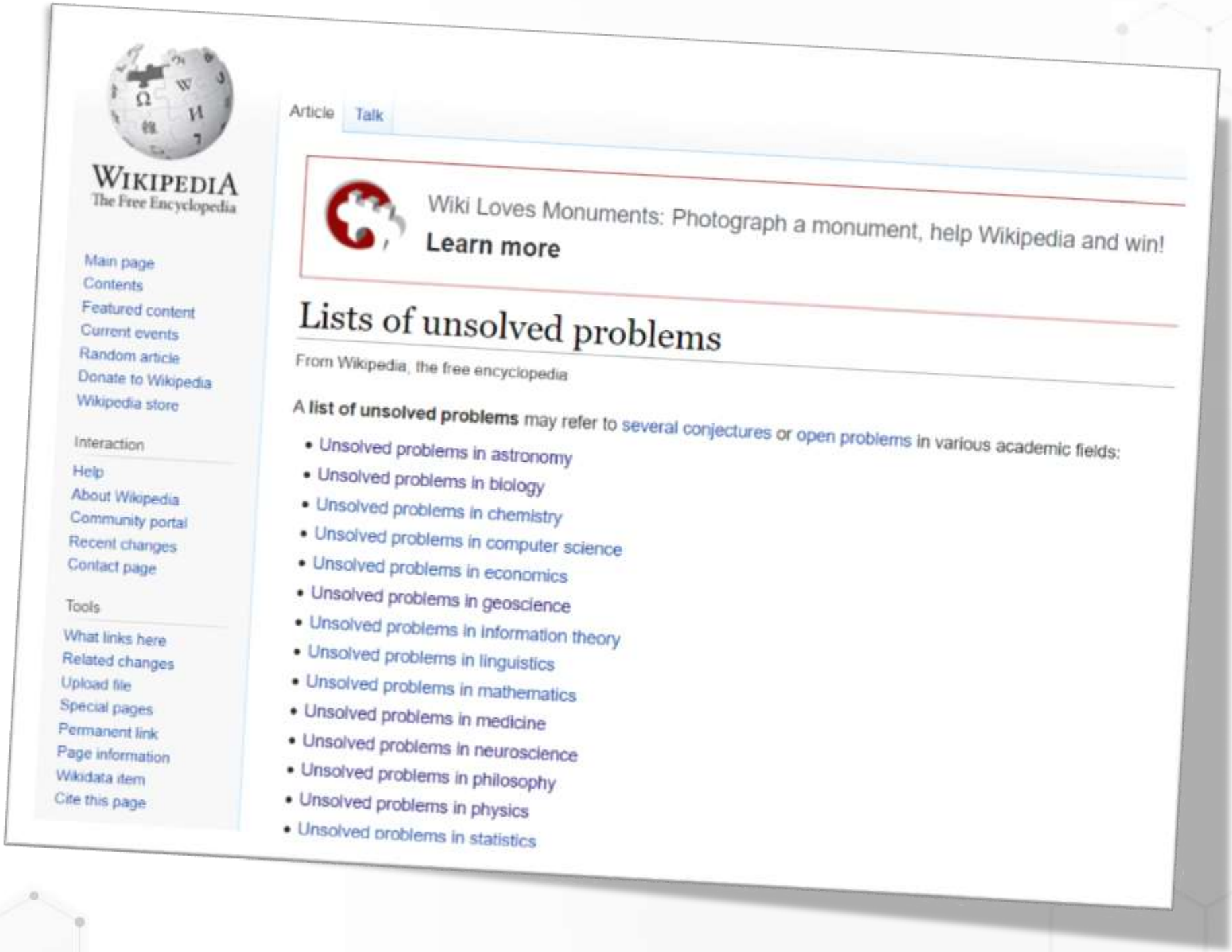
1. arXiv:1909.06628 [pdf, other] cs.LG stat.ML
Temporal FiLM: Capturing Long-Range Sequence Dependencies with Feature-Wise Modulations
Authors: Sawyer Birnbaum, Volodymyr Kuleshov, Zayd Enam, Pang Wei Koh, Stefano Ermon
Abstract: Learning representations that accurately capture long-range dependencies in sequential inputs — including text, audio, and... More
Submitted 14 September, 2019; originally announced September 2019.
Comments: Accepted to NeurIPS 2019
2. arXiv:1909.03029 [pdf, other] cs.CY
Analysis of Big Data Technology for Health Care Services



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Lists of unsolved problems

From Wikipedia, the free encyclopedia

A **list of unsolved problems** may refer to several conjectures or open problems in various academic fields:

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- Unsolved problems in computer science
- Unsolved problems in economics
- Unsolved problems in geoscience
- Unsolved problems in information theory
- Unsolved problems in linguistics
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- Unsolved problems in medicine
- Unsolved problems in neuroscience
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- Unsolved problems in physics
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LET'S GO CLIMBING!

Sergii Shelpuk
Co-founder & CEO @ DeepTrait
sergii.shelpuk@deeptrait.ai