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Presented to Engineering College Council, Cornell University

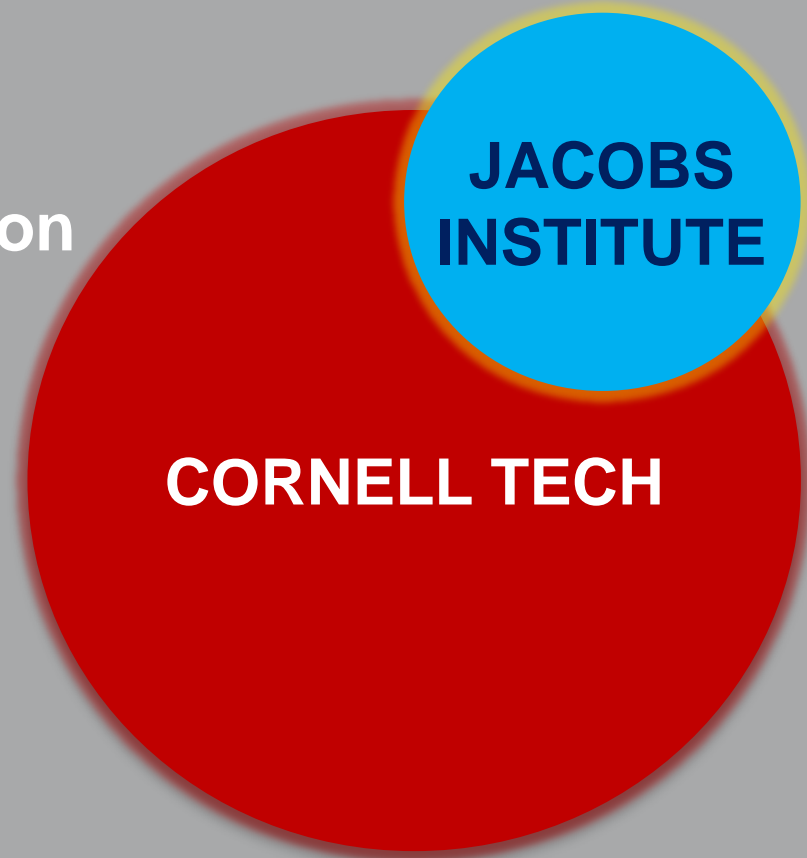
Adam Schwartz, Director

March 2015



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Sandbox for Change
Spearhead of Innovation
Synergy



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Response and Apology

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30 Years From Now

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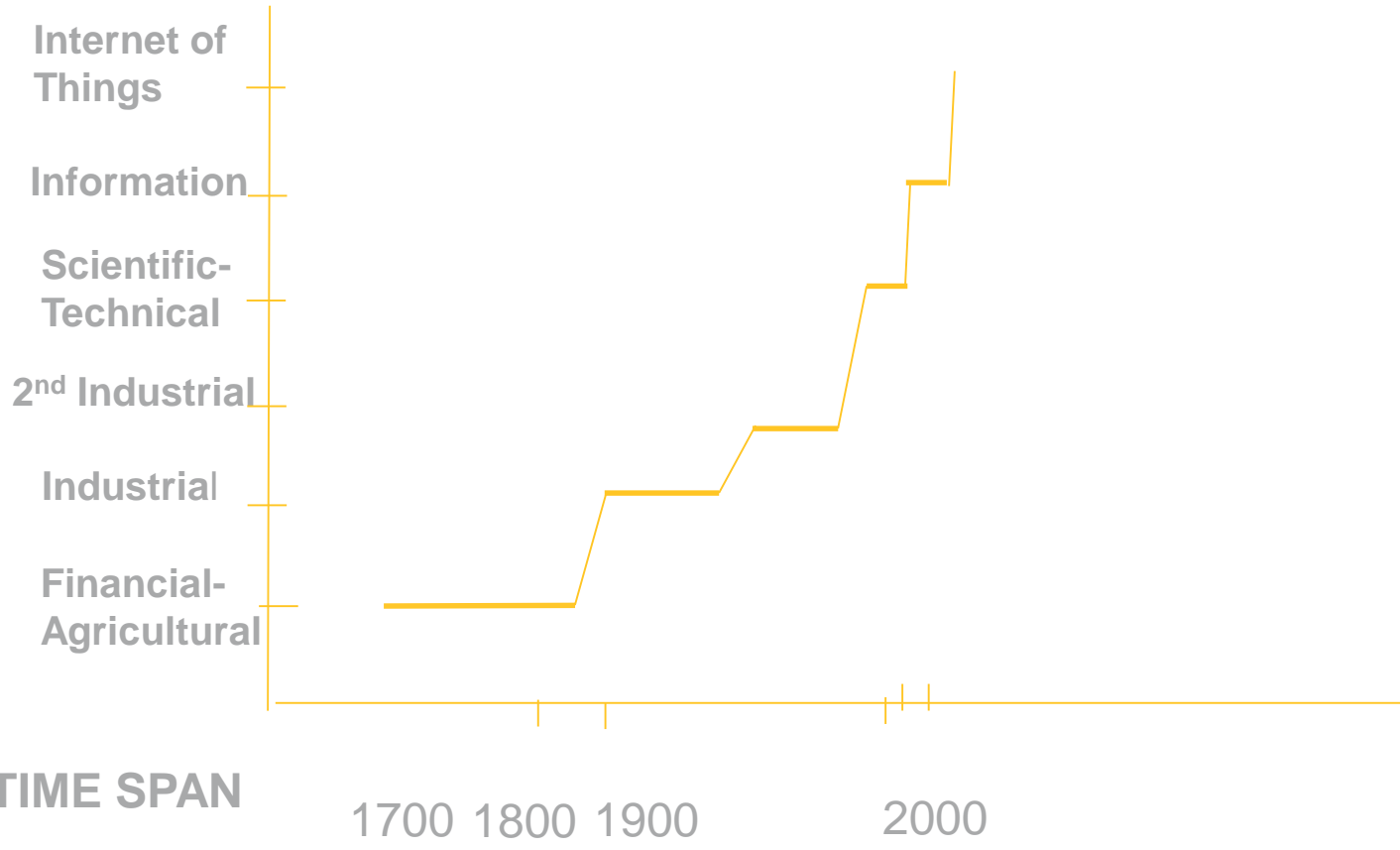


*Prediction is difficult,
especially if it's about the
future.*

- Niels Bohr

Rate of Technological Advance

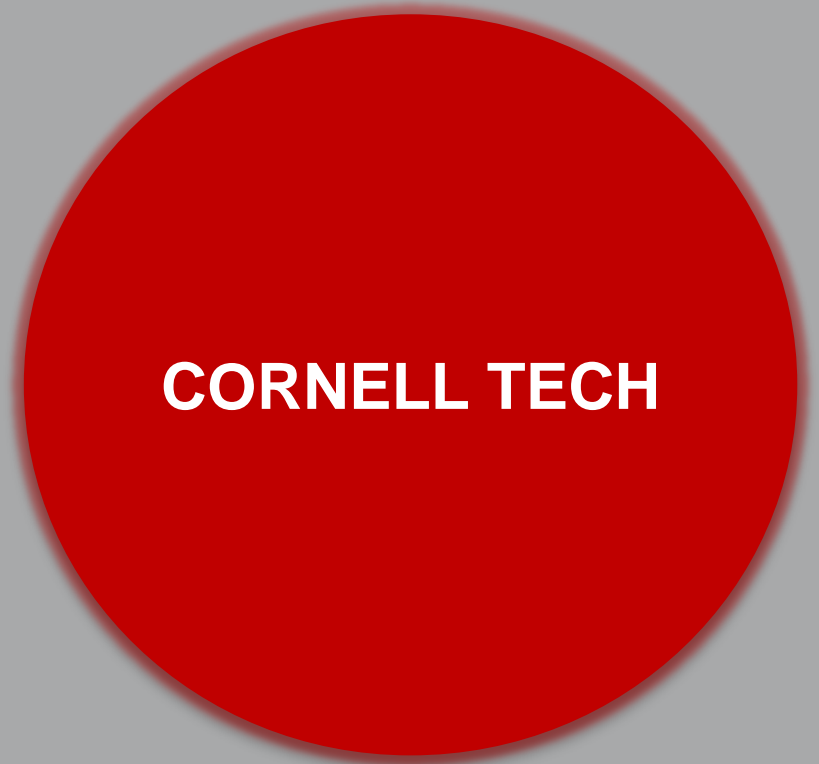
REVOLUTIONS





2 YEARS AGO

Skepticism around
potential for success

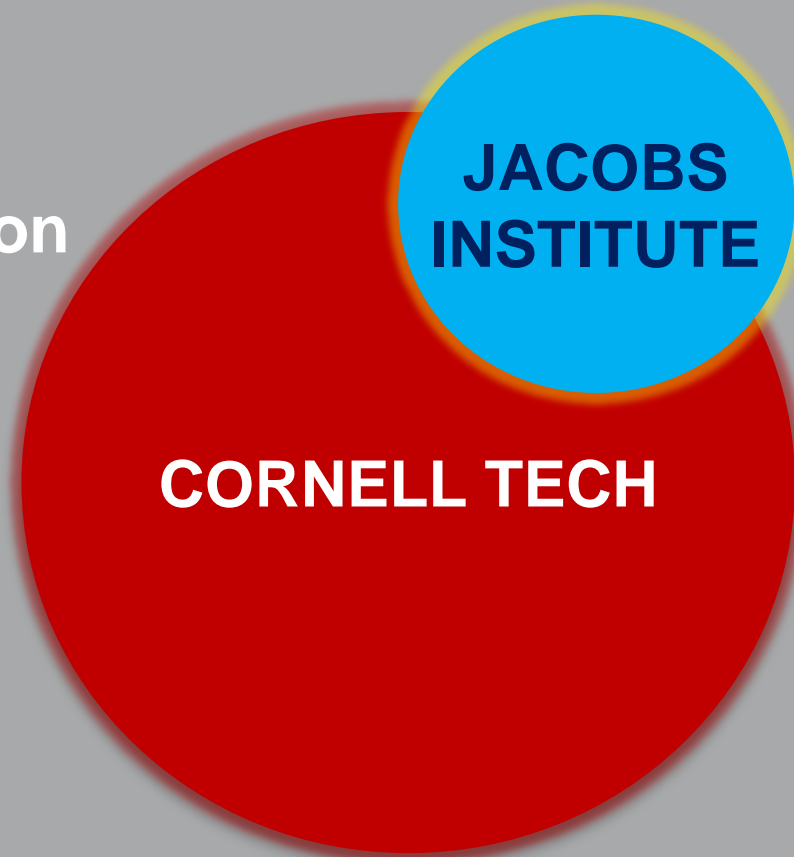


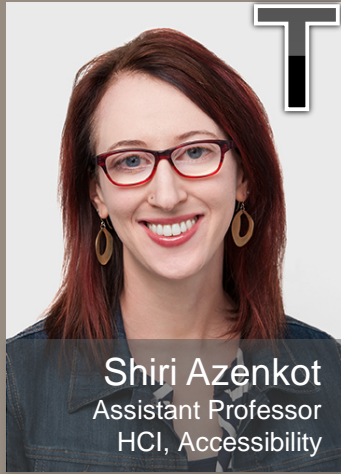
Mission?
Vision?
Integration?



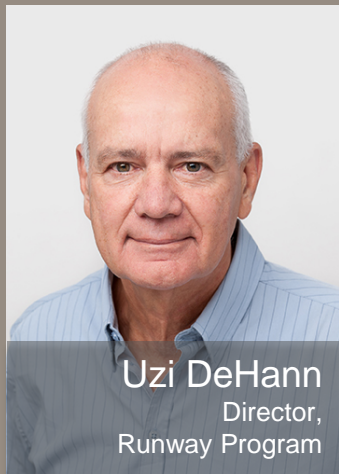
TODAY

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Shiri Azenkot
Assistant Professor
HCI, Accessibility



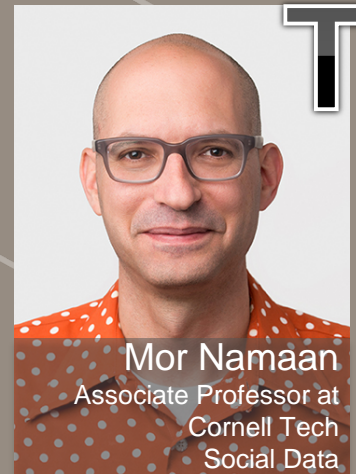
Uzi DeHann
Director,
Runway Program



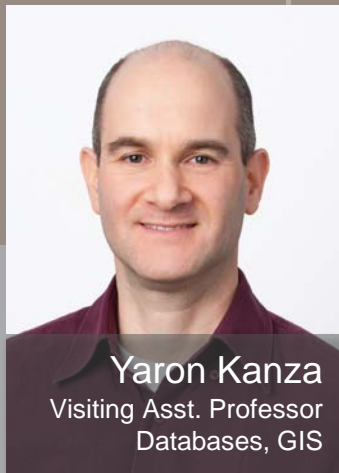
Adam Shwartz
Director,
Jacobs Institute



Lihi Zelnik-Manor
Visiting Assoc. Professor
Computer Vision



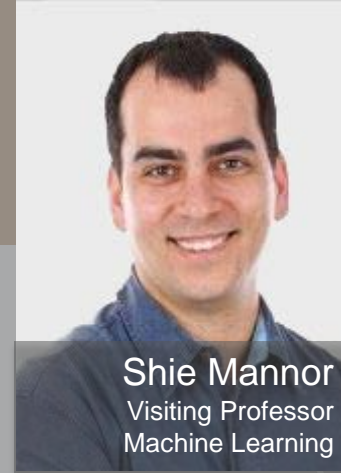
Mor Namaan
Associate Professor at
Cornell Tech
Social Data



Yaron Kanza
Visiting Asst. Professor
Databases, GIS



Ari Juels
Professor
Cryptography, Security



Shie Mannor
Visiting Professor
Machine Learning



Craig Gotsman
Visiting Professor
Geometric Computing

Runway Postdoctoral Startup Program



Unique postdoctoral entrepreneurial program pioneering a novel Intellectual Property model

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PEOPLE

- 3 Tenure Track faculty
 - 3 long term visitors
 - 9 Runway postdocs
 - 3 Postdocs
 - 6 Ph.D.
 - 12 MS in Information Systems –
Connective Media
-
- 4 Cornell, 4 Technion Board Members
 - 1 Director
 - 1 Admin (NYC), 1 Admin (Haifa)
 - Administration integrated with Cornell Tech

PROGRAMS

Education

- MS-IS, Connective Media: 12, *recruiting (20?)*
- MS-IS, Health Tech: *recruiting (6?)*
- Runway: 9, *recruiting (4?)*
- Recruiting postdocs, PhD students

Research

- Tenure Track Faculty: 3, *recruiting (2-3?)*
- Cooperation programs: grants (20 groups)
- *Technion PhD supervision*
- Cooperation programs: joint workshops (2), *exchange of research graduate students*

VISION

Driver of change
Driver of synergy within Cornell Tech

For Cornell, Technion and beyond

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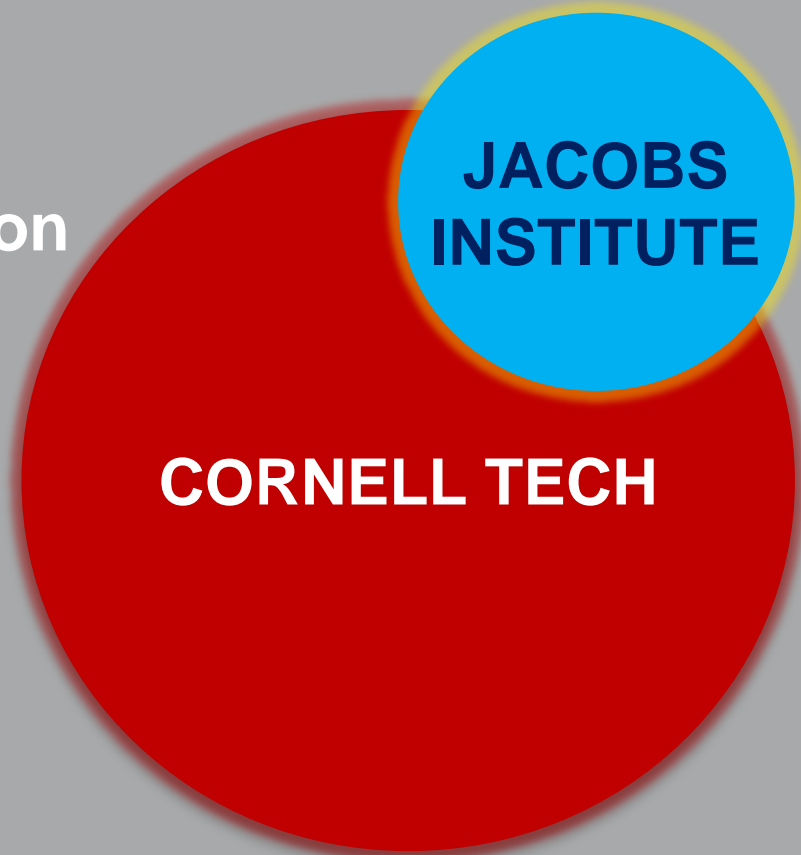
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2020

**Sandbox for Change
Spearhead of Innovation
Synergy**



2020

PEOPLE

- 15 Tenure Track faculty
- 10 long-term visitors--*including very long*
- 10-20 Runway postdocs
- 15-30 Postdocs
- 60 Ph.D.
- 250 MS in Information Systems –
Connective Media, Health Tech, Built
Environment

2020

NEW INITIATIVES

- New structure for collaborative appointments with Cornell Tech, Weill, Cornell, Technion
- New structure for Non-Tenure Track faculty



2020

PROGRAM CHANGES

Education

- Expand focus of current MS in IS degrees; collaborate with partner institutions?
- Other academic structures to incorporate additional foci (For ex., Security)
- New Hubs?
- Strategically rethink Runway program: Visiting Committee?
- PhD students – Change recruitment process?
- **Joint classes: remote/on line/partial travel?**

2020

PROGRAM CHANGES

Research

- Broader research, in part facilitated by collaborative appointments
- Workshops, joint students, joint classes
- Form CT/Cornell/Technion/Weill interest groups
- Leverage grant opportunities/philanthropy
- Brainstorming “synergy”

2020

ENTREPRENEURSHIP

It is expected we will have:

- 10-20 companies/year created by Runways, Researchers, and the 25 MS-IS graduates
- 100 experts/year – join pool talent

2025

SPECULATION

How is education done?

Meaning of physical proximity?

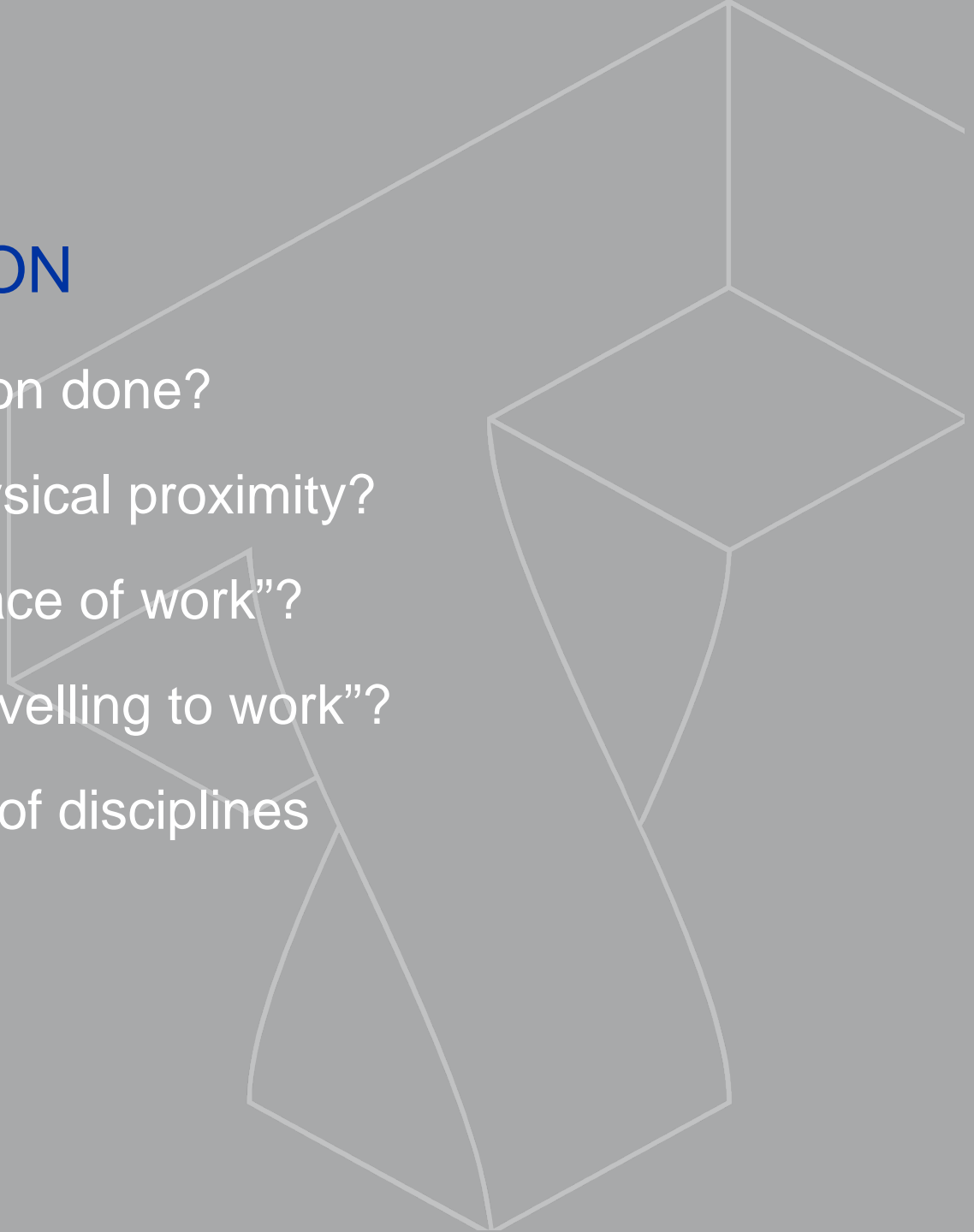
Meaning of “place of work”?

Meaning of “travelling to work”?

Predominance of disciplines

SW/HW

Exact/human



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