

# Research Expectation vs Reality

by Ahmed Abdelkader

# Agenda

- Warm-up
- You and Your Research
- How to Have a Bad Career
- A PhD Is Not Enough!
- Future Work

# Warm-up

- What brought you here today?

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*Wernher von Braun*

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**Good for you! No fairy tales today!**

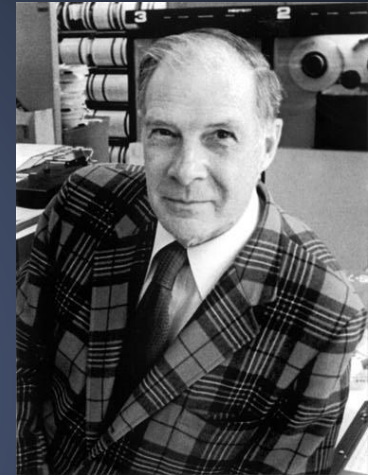


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# You and Your Research

- Richard Wesley Hamming
- (1915 - 1998)
- Manhattan Project (1945)
- Bell Labs (1946 - 1976)
- Turing Award (1968)
- The IEEE Richard W. Hamming Medal is an award given annually since 1988 for "*exceptional contributions to information sciences, systems and technology*".
- Source: <http://research.microsoft.com/en-us/events/indiasummerschool2010/jamadagni-hamminglecture-june21.pdf>



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# How to Have a Bad Career in Research/Academia

- David Andrew Patterson
- (1947 - age 65)
- RISC
- RAID
- ACM Distinguished Service Award
- ACM-IEEE Eckert-Mauchly Award
- ACM President (2004 - 2006)
- Source: <http://www.cs.berkeley.edu/~pattrsn/talks/BadCareer.pdf>



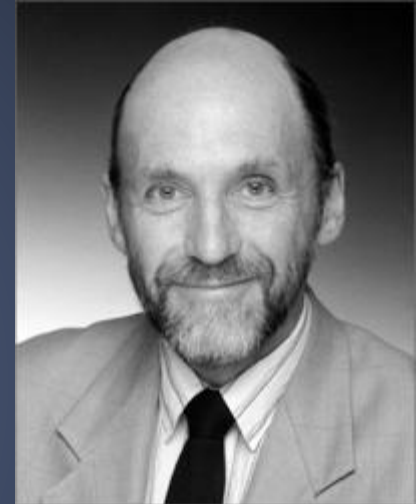
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# A PhD Is Not Enough!

## A Guide to Survival in Science

- Peter J Feibelman
- Sandia National Laboratories (1974 - )
- Davisson-Germer Prize of the American Physicist Society for outstanding research in Surface Science (1989)
- Book Summary: <http://victormlgh.blogspot.com/2012/04/phd-is-not-enough-guide-to-survival-in.html>



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**Few more things  
to think about**





# PHILIP J. GUO

[RESUME / C.V.](#)[WRITINGS](#)[SOFTWARE](#)[PHOTOS](#)[ON THE MOVE](#)[PH.D. GRIND](#)

## The Ph.D. Grind

A Ph.D. Student Memoir

### Summary

*The Ph.D. Grind*, a [122-page e-book](#), is the first known detailed account of an entire Ph.D. experience. So far, over 100,000 people—professors, research scientists, current and prospective Ph.D. students, and professionals in a variety of fields—have read it and collectively sent me hundreds of heartfelt [email responses](#).

### Philip Guo

Assistant Professor of  
Computer Science  
University of Rochester  
(starting in Fall 2014)

I am looking for students  
interested in HCI research.

Twitter | Google+ | RSS  
[philip@pgbovine.net](mailto:philip@pgbovine.net)

### The Ph.D. Grind

[Downloadable formats](#)

*"... the best description of the modern PhD experience in CS that I know of. People working on, or thinking about working on, a PhD in CS should read it."*

# ONLINE PRESENCE



## Ahmed Abdelkader

Faculty of Engineering, Alexandria University

[Computational Geometry - Robotics](#)

Verified email at alexu.edu.eg

[Homepage](#)

### Citation indices

	All	Since 2008
Citations	20	20
h-index	1	1
i10-index	1	1

### Citations to my articles



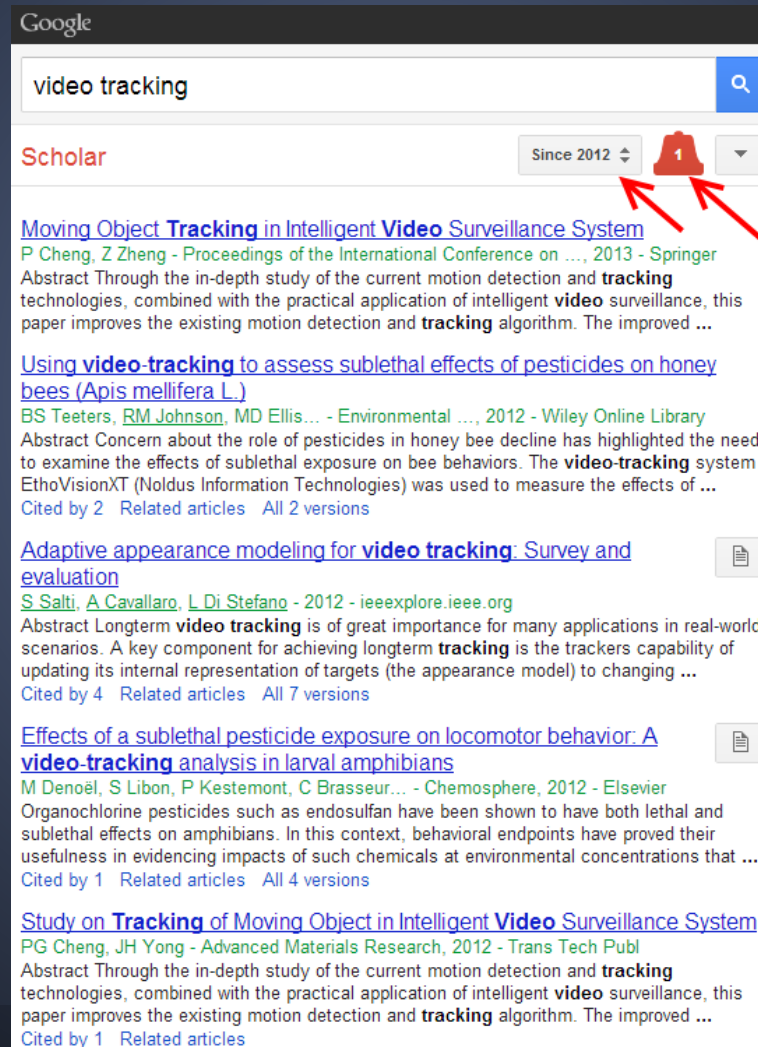
1-3

Title / Author	Cited by	Year
<a href="#">Analysis of a device-free passive tracking system in typical wireless environments</a> AE Kosba, A Abdelkader, M Youssef New Technologies, Mobility and Security (NTMS), 2009 3rd International ...	20	2009
<a href="#">Angular Heuristics for Coverage Maximization in Multi-camera Surveillance</a> A Abdelkader, M Mokhtar, H El-Alfy Advanced Video and Signal-Based Surveillance (AVSS), 2012 IEEE Ninth ...		2012
<a href="#">Visibility Induction for Discretized Pursuit-Evasion Games</a> A Abdelkader, H El-Alfy AAAI Conference on Artificial Intelligence		2012

1-3

# The one paper that can change your career

## DON'T MISS IT



Google

video tracking

Scholar

Since 2012

1

[Moving Object Tracking in Intelligent Video Surveillance System](#)  
P Cheng, Z Zheng - Proceedings of the International Conference on ..., 2013 - Springer  
Abstract Through the in-depth study of the current motion detection and **tracking** technologies, combined with the practical application of intelligent **video** surveillance, this paper improves the existing motion detection and **tracking** algorithm. The improved ...

[Using video-tracking to assess sublethal effects of pesticides on honey bees \(Apis mellifera L.\)](#)  
BS Teeters, RM Johnson, MD Ellis... - Environmental ..., 2012 - Wiley Online Library  
Abstract Concern about the role of pesticides in honey bee decline has highlighted the need to examine the effects of sublethal exposure on bee behaviors. The **video-tracking** system EthoVisionXT (Noldus Information Technologies) was used to measure the effects of ...  
Cited by 2 Related articles All 2 versions

[Adaptive appearance modeling for video tracking: Survey and evaluation](#)  
S Salti, A Cavallaro, L Di Stefano - 2012 - ieeexplore.ieee.org  
Abstract Longterm **video tracking** is of great importance for many applications in real-world scenarios. A key component for achieving longterm **tracking** is the trackers capability of updating its internal representation of targets (the appearance model) to changing ...  
Cited by 4 Related articles All 7 versions

[Effects of a sublethal pesticide exposure on locomotor behavior: A video-tracking analysis in larval amphibians](#)  
M Denoël, S Libon, P Kestemont, C Brasseur... - Chemosphere, 2012 - Elsevier  
Organochlorine pesticides such as endosulfan have been shown to have both lethal and sublethal effects on amphibians. In this context, behavioral endpoints have proved their usefulness in evidencing impacts of such chemicals at environmental concentrations that ...  
Cited by 1 Related articles All 4 versions

[Study on Tracking of Moving Object in Intelligent Video Surveillance System](#)  
PG Cheng, JH Yong - Advanced Materials Research, 2012 - Trans Tech Publ  
Abstract Through the in-depth study of the current motion detection and **tracking** technologies, combined with the practical application of intelligent **video** surveillance, this paper improves the existing motion detection and **tracking** algorithm. The improved ...  
Cited by 1 Related articles



**"When you want to succeed, as bad as you want to breathe, THEN you'll be Successful!"  
-Eric Thomas**

The Secret To Success

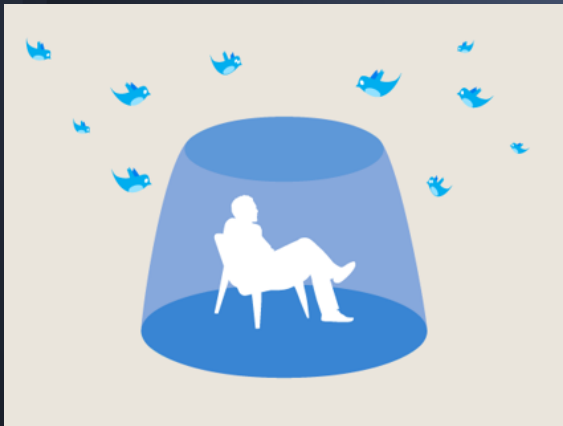
<http://www.youtube.com/watch?v=d-cg0WDB8ul>

# 99U

Thomas Edison famously said, "Genius is 1% inspiration, and 99% perspiration."

99U is Behance's effort to provide this "missing curriculum" for making ideas happen. Through our Webby Award-winning website, popular events, and bestselling books, we share pragmatic, action-oriented insights from leading researchers and visionary creatives.

<http://99u.com/category/disconnecting>



Extinction of Deep Thinking & Sacred Space

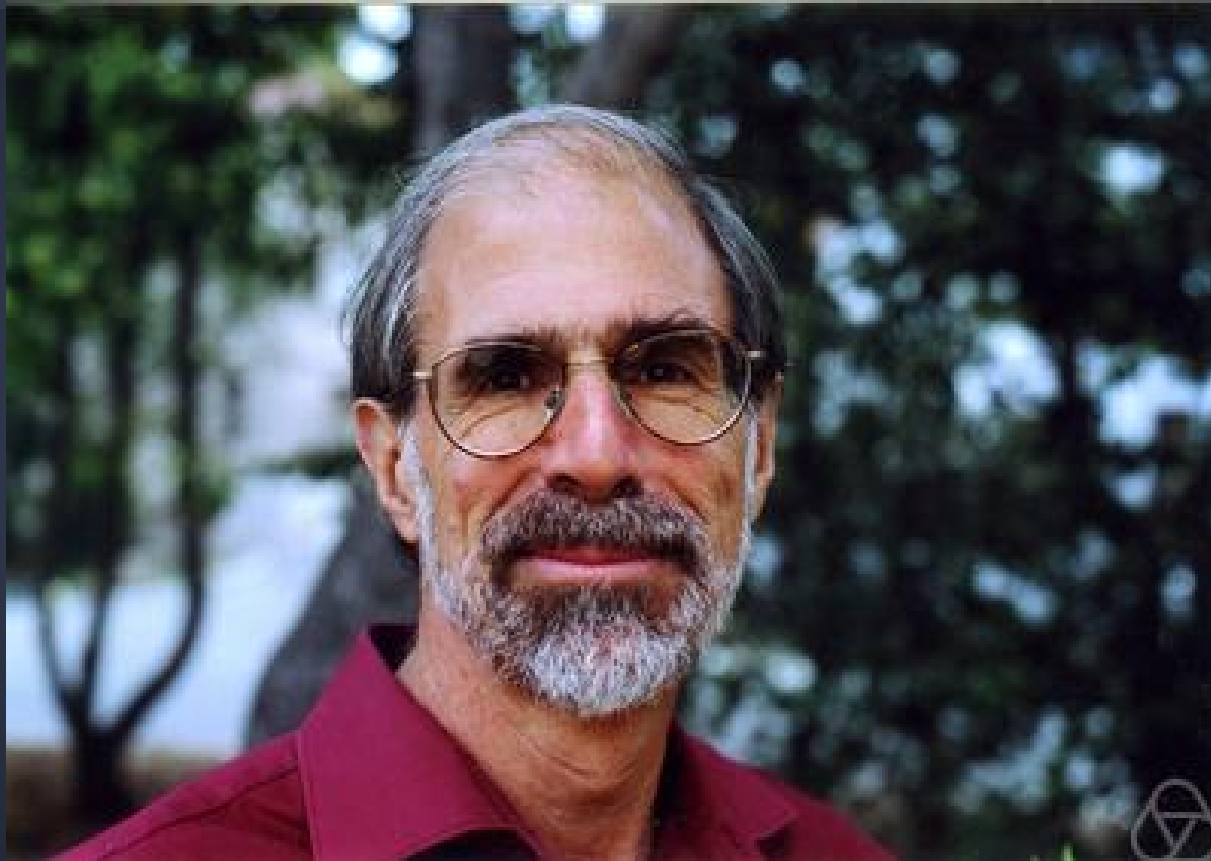


The Myths of the Overworked Creative



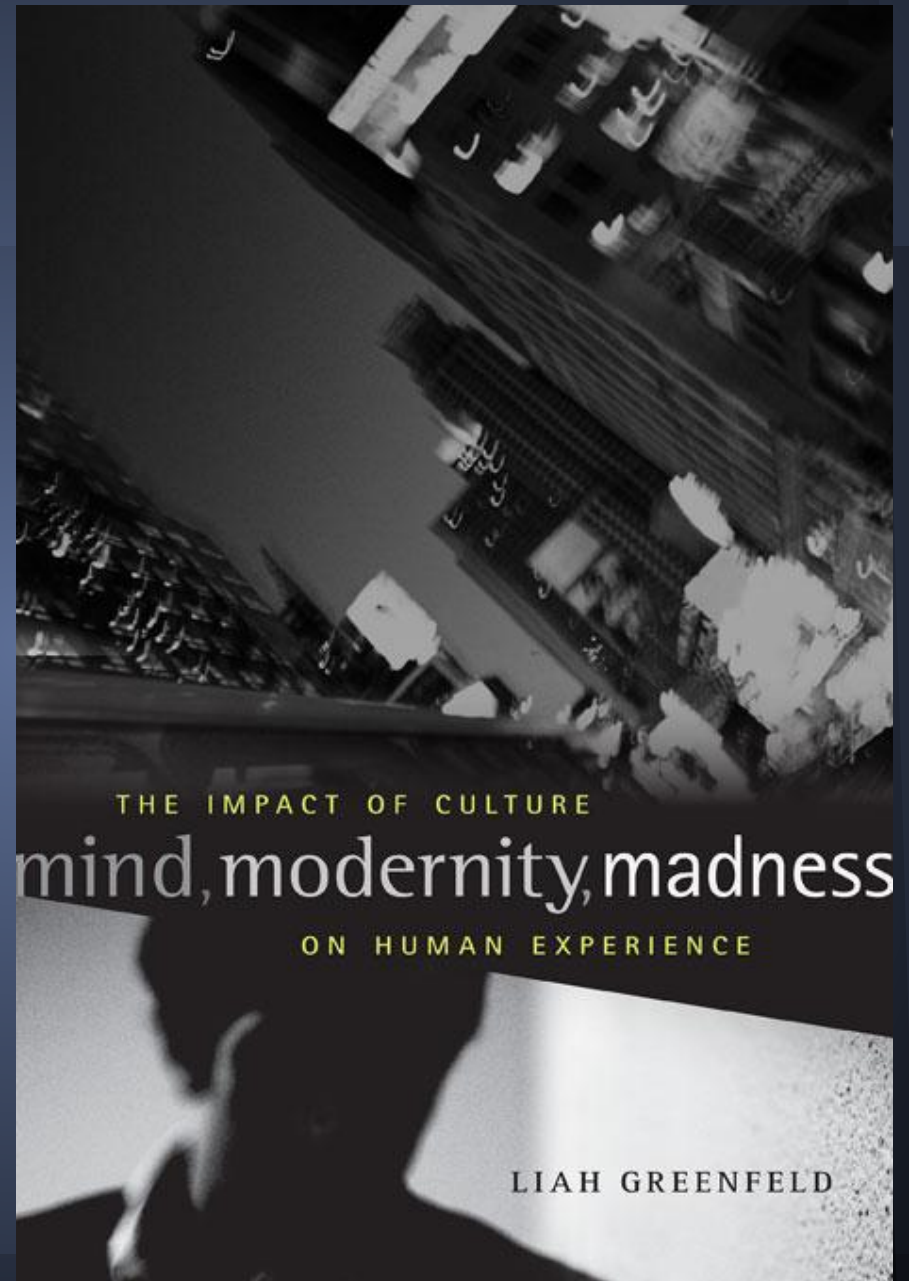
Are You An Armchair Creative?

David Eisenbud: President of the American Mathematical Society  
(2003 - 2005)



Eisenbud's hobbies are juggling (he has written two papers on the mathematics of juggling) and music.

It is modern culture—specifically the presumed equality of all the members of the society, secularism, and choice in self-definition—that makes the formation of the individual identity difficult. A member of a nation can no longer learn who or what s/he is from the environment. Modern culture leaves us free to decide what to be and to make ourselves. Paradoxically, in effect placed in control over our destiny, we are far more likely to be dissatisfied with it, than would be a person deprived of any such control: not having a choice, such a person would try to do the best with what one has and enjoy it as far as possible. Conversely, the presence of choice, the very ability to imagine oneself in a position different from one currently occupied or that of one's parents, and the idea that social orders in general are created by people and may be changed make one suspect that one's current situation is not the best one can have and to strive for a better one. The more choices one has, the less secure one becomes in the choices already made (by one or for one) and making up one's mind grows increasingly difficult.



أحد رواد النهضة الفكرية الإسلامية في القرن العشرين  
يعتبر امتداداً لابن خلدون  
أول من أودع منهاجاً محدداً في بحث مشكلة المسلمين على أساس من علم النفس  
والاجتماع وسنة التاريخ



لا يمكن لصورة قبيحة أن توحى بالخيال الجميل، فإن لمنظرها القبيح في النفس  
خيالاً أقبح، والمجتمع الذي ينطوي على صور قبيحة، لا بد أن يظهر أثر هذه  
الصور في أفكاره، وأعماله، ومساغيه



# Questions?

Thanks for coming!