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Shiva Mehravaran, MD, MSc

July 2021

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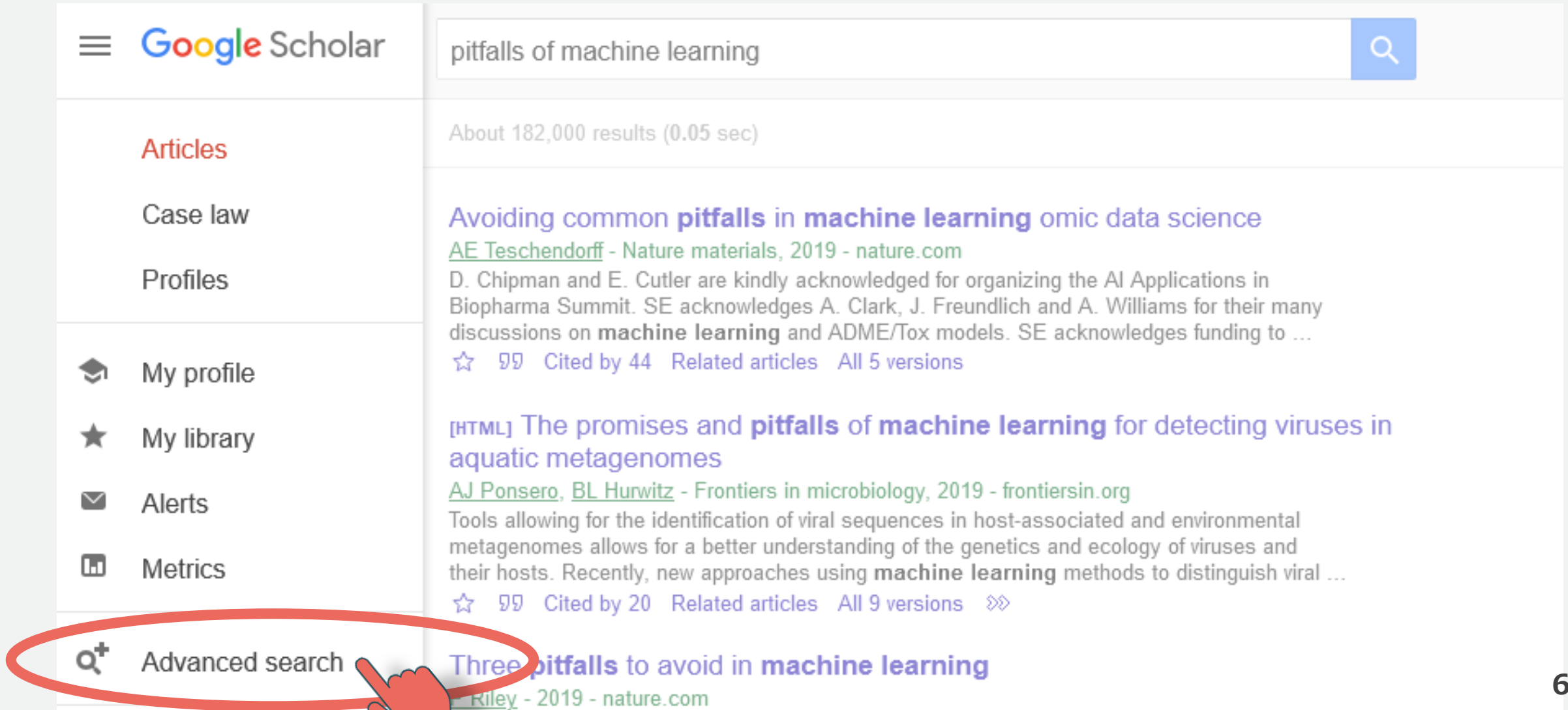
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[M Doan](#), [AE Carpenter](#) - [Nature materials](#), 2019 - [nature.com](#)

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[M Nassar](#), [M Doan](#), [A Filby](#), [O Wolkenhauer](#)... - [Cytometry Part ...](#), 2019 - [Wiley Online Library](#)

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[J Olczak](#), [J Pavlopoulos](#), [J Prijs](#), [FFA Ijpma](#)... - *Acta ...*, 2021 - Taylor & Francis

... towards a healthcare setting. Key concepts presented in this review. Introduction to artificial intelligence (AI) and **machine learning** (ML) and how these relate to traditional clinical research statistics. Common **pitfalls** in AI research ...

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[PDF] tandfonline.com
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Domain-specific introduction to **machine learning** terminology, **pitfalls** and opportunities in CRISPR-based gene editing

[AR O'Brien](#), [G Burgio](#), [DC Bauer](#) - *Briefings in bioinformatics*, 2021 - academic.oup.com

The use of **machine learning** (ML) has become prevalent in the genome engineering space, with applications ranging from predicting target site efficiency to forecasting the outcome of repair events. However, jargon and ML-specific accuracy measures have made it hard to ...

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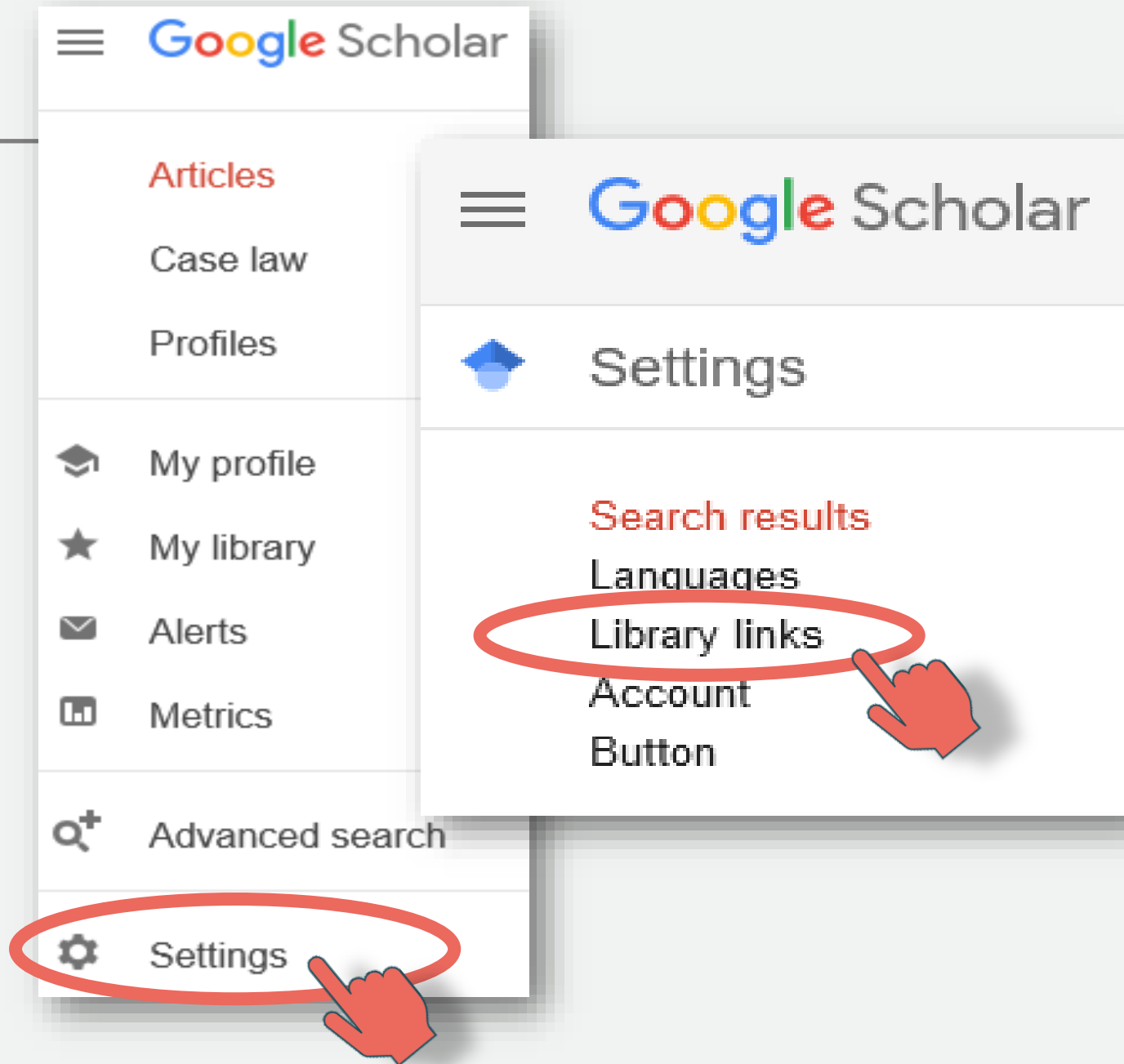
Evaluating the **machine learning** literature: a primer and user's guide for psychiatrists

[A Grzenda](#), [NV Kraguljac](#)... - *American Journal of ...*, 2021 - Am Psychiatric Assoc


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[HTML] Artificial Intelligence, **Machine Learning**, and Surgical Science: Reality Versus Hype

[M El Hechi](#), [TM Ward](#), [GC An](#), [LR Maurer...](#) - [Journal of Surgical ...](#), 2021 - Elsevier

... In surgery, **machine learning**-based algorithms are being studied for use as decision aids in risk prediction and even for intraoperative applications ... While AI has great promise in surgery, these algorithms come with a series of potential **pitfalls** that cannot be ignored as hospital ...

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Organic reactivity from mechanism to **machine learning**

[K Jorner](#), [A Tomberg](#), [C Bauer](#), [C Sköld...](#) - [Nature Reviews ...](#), 2021 - nature.com

As more data are introduced in the building of models of chemical reactivity, the mechanistic component can be reduced until 'big data' applications are reached. These methods no longer depend on underlying mechanistic hypotheses, potentially learning them implicitly through ...

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An overview of current trends, techniques, prospects, and **pitfalls** of artificial intelligence in breast imaging

[S Goyal](#) - [Reports in Medical Imaging](#), 2021 - dovepress.com

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Pitfalls of Explainable ML: An Industry Perspective

S Verma, A Lahiri, JP Dickerson, SI Lee - arXiv preprint arXiv:2106.07758, 2021 - arxiv.org

... **Pitfalls** of Explainable ML: An Industry Perspective ... ABSTRACT As **machine learning** (ML) systems take a more prominent and central role in contributing to life-impacting decisions, ensuring their trustworthiness and accountability is of utmost importance ...

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Machine Learning Techniques used for the Histopathological Image Analysis of Cancer-A Review

S Panigrahi, T Swarnkar - The Open Bioinformatics Journal, 2020 - benthamopen.com

... Comparing the **pitfalls** of **machine learning** and how it has overcome by deep **learning** mostly for image recognition tasks are also discussed subsequently. The third part of the manuscript describes how deep **learning** is beneficial and widely used in different cancer domains ...

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A Platform to Manage the End-to-End Lifecycle of Batch-Prediction Machine Learning Models

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
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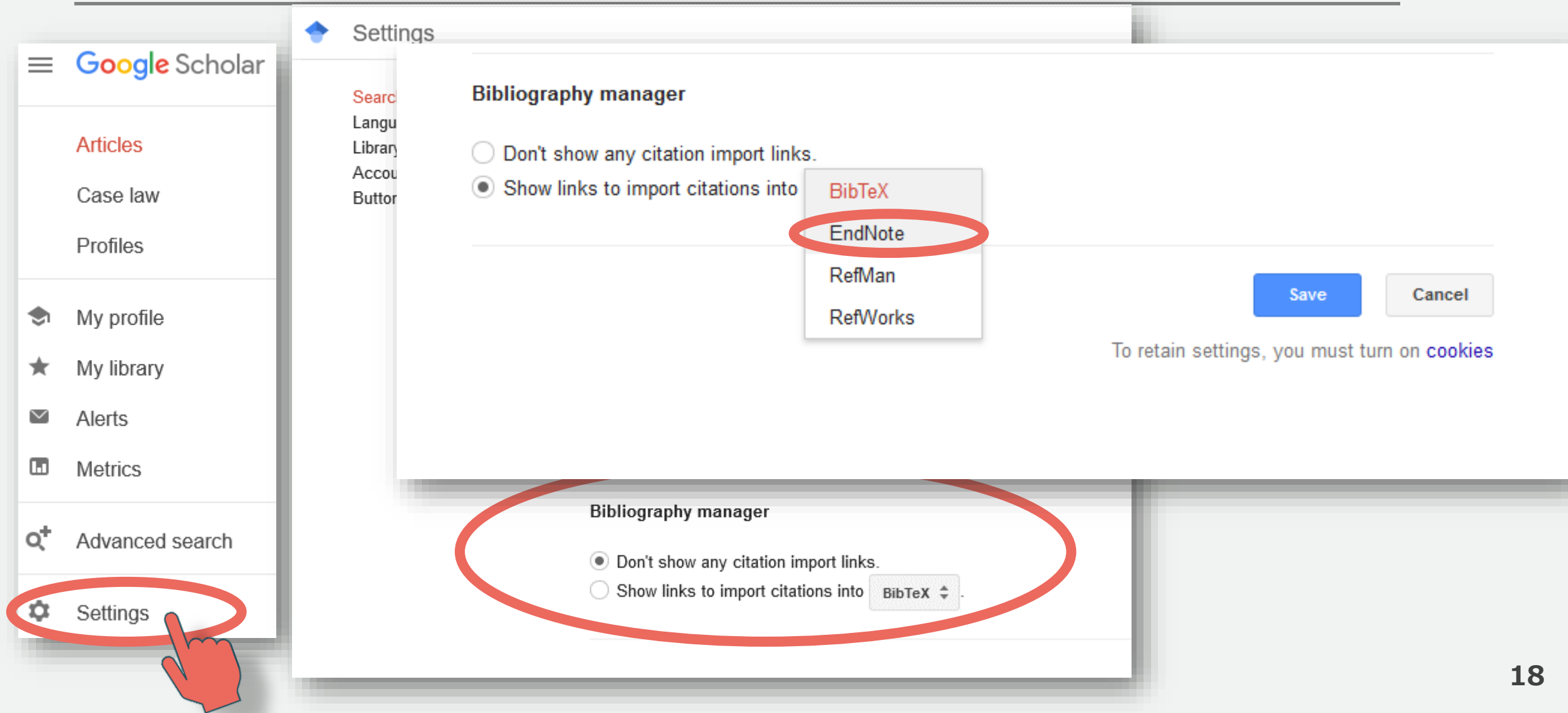
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RC Kessler, M Petukhova, NA Sampson... - ... journal of methods ..., 2012 - Wiley Online Library

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Data are presented on the lifetime prevalence, projected lifetime risk, and age-of-onset distributions of mental disorders in the World Health Organization (WHO)'s World Mental Health (WMH) Surveys. Face-to-face community surveys were conducted in seventeen ...

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Sex and depression in the National Comorbidity Survey I: **Lifetime prevalence**,



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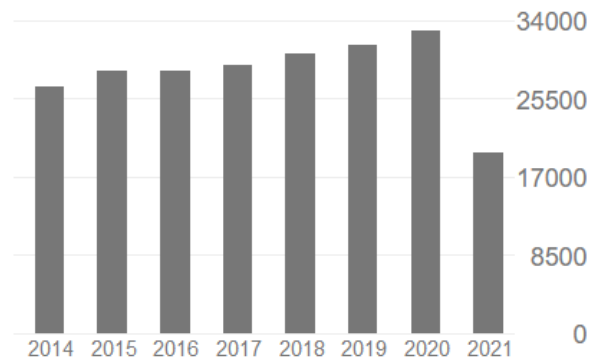
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Lifetime and 12-month prevalence of DSM-III-R psychiatric disorders in the United States: results from the National Comorbidity Survey RC Kessler, KA McGonagle, S Zhao, CB Nelson, M Hughes, S Eshleman, ... Archives of general psychiatry 51 (1), 8-19	17900	1994
Prevalence, severity, and comorbidity of 12-month DSM-IV disorders in the National Comorbidity Survey Replication RC Kessler, WT Chiu, O Demler, EE Walters Archives of general psychiatry 62 (6), 617-627	14196	2005
Posttraumatic stress disorder in the National Comorbidity Survey RC Kessler, A Sonnega, E Bromet, M Hughes, CB Nelson Archives of general psychiatry 52 (12), 1048-1060	13935	1995
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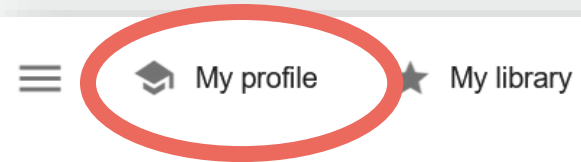
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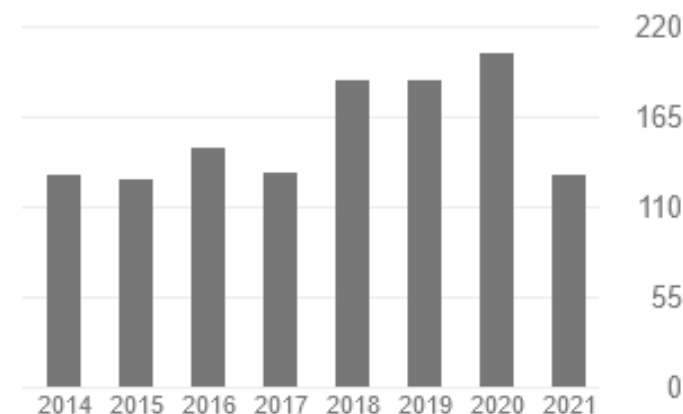
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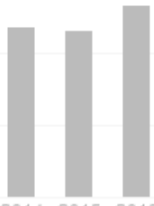
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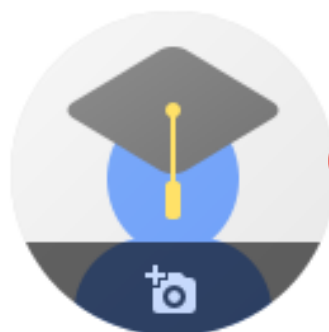
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H Hashemi, S Mehravaran

Journal of Cataract & Refractive Surgery 33 (5): 841-847



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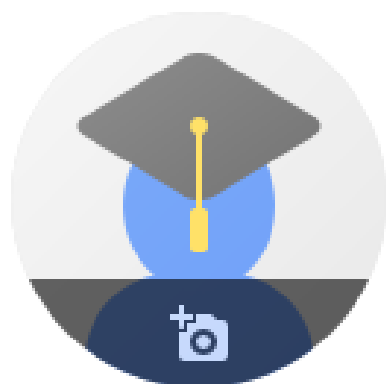
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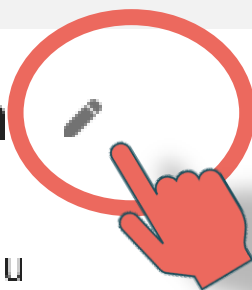


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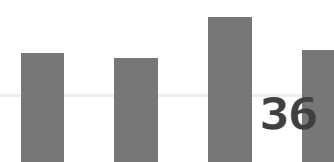


Corneal changes after laser refractive surgery for myopia:
comparison of Orbscan II and Pentacam findings

H Hashemi, S Mehravaran

122

2007



Areas of Interest

×

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Areas of interest

machine learning, eye care, ophthalmology

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TITLE



Corneal changes after laser refractive surgery for myopia: comparison of
Pentacam findings

**Geoffrey Hinton**

Emeritus Prof. Comp Sci, U.Toronto & Engineering Fellow, Google
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**Yoshua Bengio**

Professor of computer science, University of Montreal, Mila, IVADO, CIFAR
Verified email at umontreal.ca

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**Robert Tibshirani**

Professor of Biomedical Data Sciences, and of Statistics, Stanford University
Verified email at stanford.edu

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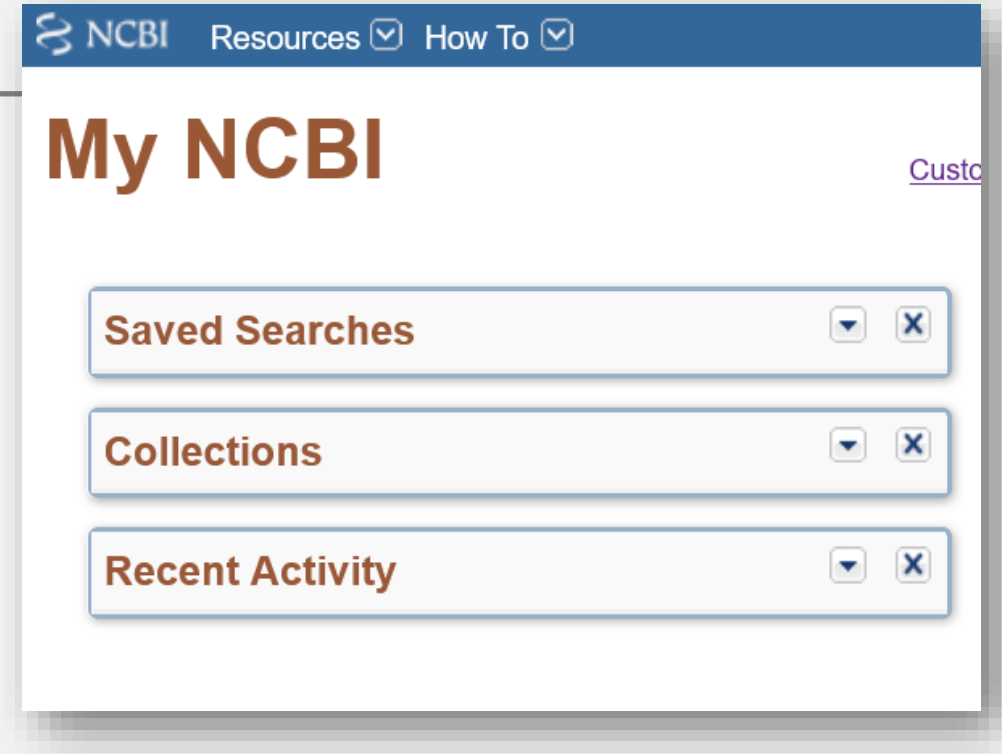
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```
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```



Search 

(((cornea[Title]) AND (population-based[Title/Abstract])) AND (english[Language])) AND (eye[Title/Abstract])

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1

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Macular Edema Using Deep **Learning**: A Post Hoc Analysis of a Randomized
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Roberts PK, Vogl WD, Gerendas BS, Glassman AR, Bogunovic H, Jampol LM, Schmidt-Erfurth

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26-Jun-2021	dbGaP	search	c. acnes AND 1[s_discriminator]
26-Jun-2021	BioProject	record	
26-Jun-2021	BioProject	search	c. acnes
26-Jun-2021	MeSH	record	trigger-factor protein, Propionibac...
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Test Bio April 2019	0
Biosketch21-May2021	1
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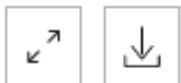
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Evaluating Research Centers in Minority Institutions: Framework, Metrics, Best Practices, and Challenges.

Sy A, Hayes T, Laurila K, Noboa C, Langwerden RJ, Hospital MM, Andújar-Pérez DA, Stevenson L, Cunningham SMR, Rollins L, Madanat H, Penn T, **Mehravaran S**.

Int J Environ Res Public Health. 2020 Nov 12;17(22):8373. doi: 10.3390/ijerph17228373.

19 outcomes for African Americans: more studies are

Chen YC.

5:ciab498. doi: 10.1093/cid/ciab498. Online ahead of print.

FREE PMC article. No abstract available.

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NIH 2017	21-Nov-2017	Private	NIH Biosketch
Test Bio April 2019	03-Apr-2019	Private	NIH Biosketch
Biosketch21-May2021	13-Jun-2021	Private	NIHBiosketch3

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Shiva Mehravaran, MD, MIH

Senior Research Scientist

Morgan State University

<http://orcid.org/0000-0002-4249-3304>

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☐ Tam EK, Mehravaran S, Young A, Duarte PB, Mondino K, Coleman AL. Relationship between Geography and Refractive Error in a Large, Multi-Ethnic, Multi-Racial, Multi-Site, Multi-Center, Multi-Specialty Ophthalmic Epidemiol. 2021 Feb;28(1):32-38. PubMed ID: 32669011.

☐ Asgari S, Mehravaran S, Fotouhi A, Makateb A, Hashemi H. Total corneal refractive power and shape in Down syndrome. J Refract Surg. 2019;35(10):655-660. PubMed ID: 31635486.

☐ Hashemi H, Amanzadeh K, Sevedian M, Zeraati H, Roberts CI, Mehravaran S, Ambrósio R Jr, Vinciguerra R, Vinciguerra S, et al. Corneal curvature and astigmatism in a large, multi-ethnic, multi-racial, multi-site, multi-center, multi-specialty ophthalmic epidemiol. J Refract Surg. 2021;37(1):32-38. PubMed ID: 33669011.

B. Positions, Scientific Appointments and Honors

Positions and Scientific Appointments

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4

Description [edit](#)

Visual Impairment in Los Angeles County Preschoolers. Refractive errors are the most common vision problems worldwide and correctable with eyeglasses and contact lenses, in a large percentage of cases, especially children and the elderly, the need for condition can lead to amblyopia and permanent visual impairment in children and rates can be higher in low-socioeconomic populations. In the Vision Program, my colleagues and I found that over 8% of the preschool population in Head Start and low-income schools in Los Angeles County needed glasses they needed.

Citations [[Select citations](#)]

- a. Mehravaran S, Quan A, Hendler K, Yu F, Coleman AL. Implementing enhanced education to improve the UCLA Preschool Vision Program. *Arch Ophthalmol*. 2016 Dec;22(6):441-444. PubMed ID: 30227246.
- b. Hendler K, Mehravaran S, Lu X, Brown SI, Mondino BJ, Coleman AL. Refractive Errors and Amblyopia in the UCLA Preschool Vision Program. *Arch Ophthalmol*. 2016 Dec;172:80-86. PubMed ID: 27640004.

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1. Use the NIH ASSIST system to prepare, submit and track your application online.

Apply Online Using ASSIST



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Welcome to the Application Submission System & Interface for Submission Tracking (ASSIST)



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PAR-19-260

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Application Information

Application Identifier: 1026746

Application Project Title: Generation and analysis ... + consultant

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Shiva

shiva.menravarani@morgan.edu

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PD/PI



Other Project Role

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Degree Year

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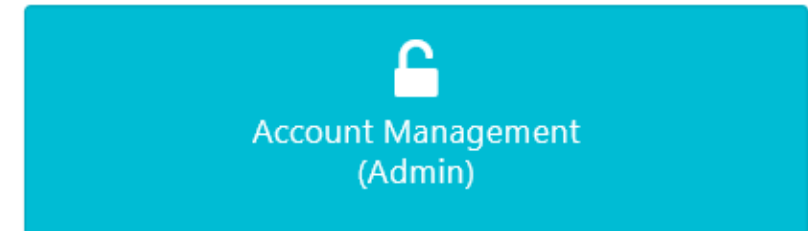
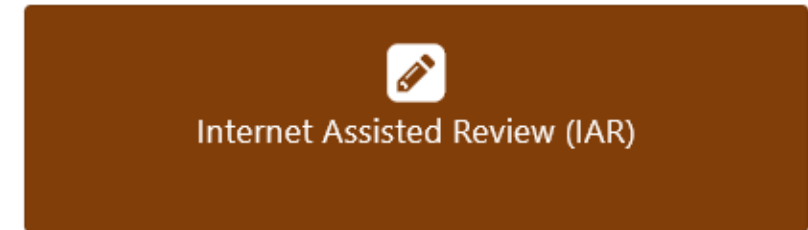
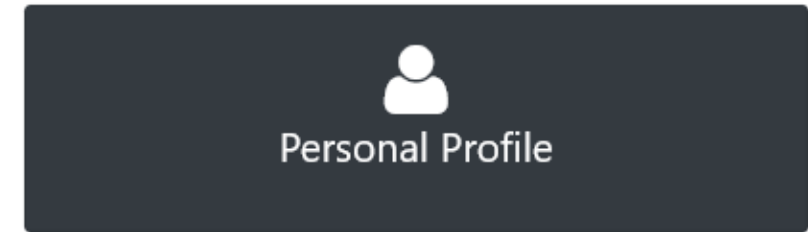
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Submit Application

"Submit Application" is only active for Signing Officials

- Make sure to complete MSU processes
 - IRF, Budget Justification, etc.
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 - Errors, status change, Grant.gov Tracking#

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- Funded Awards
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- Review assignment status, review results, summary statements, and Notices of Award
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Status ResultList of Applications/Awards ?

GRANT13396469			
Application/Award ID 1R21EY033883-01		Grants.gov Tracking Number GRANT13396469	Proposal Title Generation and analysis of fellow-eye difference data matrices entire corneal surface for identifying subtle abnormalities
PD/PI Name MEHRAVARAN, SHIVA (PI)	eSubmission Status Submission Complete	Current Application Status Pending IRG Review	Status Date 06/25/2021



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Conclusion

- The WWW is becoming increasingly interconnected
 - Including many social, academic, and research tools
- Benefits
 - Facilitate many processes
 - *searching, connecting, following, writing, citing, etc.*
 - Enhance visibility and networking
 - *increase impact*
- Required



Thank you!
Questions?