




## John P.A. Ioannidis

C. F. Rehnberg Professor in Disease Prevention in the School of Medicine, Professor of Medicine, of Health Research and Policy (Epidemiology) and by courtesy, of Statistics and of Biomedical Data Science

Medicine - Stanford Prevention Research Center

 Curriculum Vitae available Online

### CONTACT INFORMATION

#### • Administrative Contact

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### Bio

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#### BIO

C.F. Rehnberg Chair in Disease Prevention, Professor of Medicine, of Health Research and Policy, of Biomedical Data Science, and of Statistics; co-Director, Meta-Research Innovation Center at Stanford; Director of the PhD program in Epidemiology and Clinical Research.

Born in New York City in 1965 and raised in Athens, Greece. Valedictorian (1984) at Athens College; National Award of the Greek Mathematical Society (1984); MD (top rank of medical school class) from the National University of Athens in 1990; also received DSc in biopathology from the same institution. Trained at Harvard and Tufts (internal medicine and infectious diseases), then held positions at NIH, Johns Hopkins and Tufts. Chaired the Department of Hygiene and Epidemiology, University of Ioannina Medical School in 1999-2010 (tenured professor since 2003) while also holding adjunct professor positions at Harvard, Tufts, and Imperial College. Senior Advisor on Knowledge Integration at NCI/NIH (2012-6). Served as President, Society for Research Synthesis Methodology, and editorial board member of many leading journals (including PLoS Medicine, Lancet, Annals of Internal Medicine, JNCI among others) and as Editor-in-Chief of the European Journal of Clinical Investigation (2010-2019). Delivered ~600 invited and honorary lectures. Recipient of many awards (e.g. European Award for Excellence in Clinical Science [2007], Medal for Distinguished Service, Teachers College, Columbia University [2015], Chanchlani Global Health Award [2017], Epiphany Science Courage Award [2018], Einstein fellow [2018]). Inducted in the Association of American Physicians (2009), European Academy of Cancer Sciences (2010) American Epidemiological Society (2015), European Academy of Sciences and Arts (2015), National Academy of Medicine (2018). Honorary titles from FORTH (2014) and Ioannina (2015) and honorary doctorates from Rotterdam (2015), Athens (2017), Tilburg (2019, ceremony in 11/2019), Edinburgh (2019, ceremony in 2020). Multiple honorary lectureships/visiting professorships (Caltech, Oxford, LSHTM, Yale, U Utah, U Conn, UC Davis, U Penn, Wash U St. Louis, NIH among others). The PLoS Medicine paper on “Why most published research findings are false” has been the most-accessed article in the history of Public Library of Science (>2.8 million hits). Author of 7 literary books in Greek, three of which (“Toccata for the Girl with the Burnt Face” (Kedros 2012), “Variations on the Art of the Fugue and a Desperate Ricercar” (Kedros 2014), “Meta-A-Physics” (Kedros, 2018)) were shortlisted for best book of the year Anagnostis awards. Brave Thinker scientist for 2010 according to Atlantic, “may be one of the most influential scientists alive”. Highly Cited Researcher according to Thomson Reuters in both Clinical Medicine and in Social Sciences. Citation indices: h=184, m=7 per Google Scholar (h=151 per WoK and 152 per Scopus). Current citation rates: >3,600 new citations per month per Google Scholar, ~2,000 new citations per month per Scopus or Web of Knowledge.

Current citation rates suggest that I am among the 10 scientists worldwide who are currently the most commonly cited, perhaps also the currently most-cited physician. This probably only proves that citation metrics are highly unreliable, since I estimate that I have been rejected over 1,000 times in my life. Regardless, I consider myself

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privileged to have learned and to continue to learn from interactions with students and young scientists (of all ages) from all over the world and I love to be constantly reminded that I know next to nothing.

## **ACADEMIC APPOINTMENTS**

- Professor, Medicine - Stanford Prevention Research Center
- Professor, Health Research & Policy
- Professor (By courtesy), Statistics
- Professor (By courtesy), Biomedical Data Science
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Stanford Cancer Institute
- Affiliate, Stanford Woods Institute for the Environment

## **ADMINISTRATIVE APPOINTMENTS**

- Co-Director, Meta-Research Innovation Center at Stanford (METRICS), (2013- present)
- Editor-in-chief, European Journal of Clinical Investigation, (2010- present)
- Member, Stanford Cardiovascular Institute, (2010- present)
- Member, Stanford Cancer Center, (2010- present)
- Affiliate, Stanford Center on Longevity, (2012- present)
- Affiliated faculty, Woods Institute for the Environment, (2011- present)
- Member, Stanford Diabetes Research Center, (2018- present)
- Director, METRIC B, (2018- present)
- Professor of Statistics (by courtesy), Stanford University School of Humanities and Sciences, (2011- present)
- Professor of Health Research and Policy, Stanford University School of Medicine, (2011- present)
- Professor of Medicine, Stanford University School of Medicine, (2010- present)
- Professor of Biomedical Data Science (by courtesy), Stanford University School of Medicine, (2016- present)
- Director, Stanford Prevention Research Center, (2010-2016)

## **HONORS AND AWARDS**

- Elected member, National Academy of Medicine (2018-)
- Einstein fellow, Berlin Institute of Health, Einstein Stiftung and Stiftung Charite (2018)
- Epiphany Science Courage Award, Novim (inaugural award) (2018)
- Elected Councilor, Association of American Physicians (2017-2022)
- Elected member, Association of American Physicians (2009-)
- President, Society for Research Synthesis Methodology (2009-2010)
- Elected fellow, European Academy of Cancer Sciences (2010-)
- Elected member, American Epidemiological Society (2015-)
- Elected member, European Academy of Sciences and Arts (2015-)
- European Award for Excellence in Clinical Science, European Society for Clinical Investigation (2007)
- Albert Stuyvenberg Medal, European Society for Clinical Investigation (2019 (award ceremony 5/2020))
- Chanchlani Award for Global Health, McMaster University (2017)

- David-Sackett-Preis, Deutsche Netzwerk Evidenzbasierte Medizin (2017)
- Lifetime Achievement Award, Hellenic Society for Pharmacological Science (2016)
- Medal for Distinguished Service, Teachers College, Columbia University (2015)
- Honorary PhD, Erasmus University Rotterdam (2015)
- Honorary PhD (health sciences), University of Athens (2017)
- Honorary PhD, University of Tilburg (2019 (award ceremony 11/2019))
- Honorary doctorate (medicine), University of Edinburgh (2019 (award ceremony 2020))
- Litchfield Lectureship, Oxford University (2015)
- Levine lectureship, Yale (2016)
- Harris lectureship in science and civilization, Caltech (2016)
- Snyder Lectureship, University of Utah (2016)
- Anatomy Lesson lecturer, University of Amsterdam and Academic Medical Center (2016)
- Annual Distinguished Investigator, University of Connecticut School of Medicine and Health Center (2017)
- Snively visiting professorship, UC Davis (2017)
- Gonatas memorial lectureship, University of Pennsylvania (2018)
- David and Rosemary Adamson Lecture on Excellence in Reproductive Medicine, ASRM (2018)
- C.R. Stephen lecture, Washington University St. Louis (2019)
- Gordon Award, National Institutes of Health (2019)
- Honorary President, Medical and Surgical Society of Corfu (2019)
- Honorary member, FORTH (2014)
- Honorary professor (omotimos), University of Ioannina (2014)
- Executive board member and center director, Human Genome Epidemiology Network (2004-)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Chair, Scientific Advisory Board, Usher Institute for Population Health Sciences and Informatics, University of Edinburgh (2015 - present)
- Faculty Fellow, Stanford Center for Innovation on Global Health (2015 - present)
- Member, Scientific Advisory Board, Berkeley Initiative for Transparency in Social Sciences (2014 - present)
- Member, Scientific Advisory Board, Center for Open Science (2013 - present)
- Member, Scientific Advisory Board, International Epidemiology Institute (2012 - present)
- Member, Scientific Advisory Board, Reproducibility Initiative (2012 - present)
- Senior Advisor for Knowledge Integration, NCI, NIH (2012 - 2016)
- Member, Methodology Committee, PCORI (2011 - 2013)
- Vice President, Board of Directors, Hellenic Center for Infectious Disease Control (2000 - 2001)

## **PROFESSIONAL EDUCATION**

- Fellowship, New England Medical Center, Tufts University School of Medicine , Infectious Diseases (1996)
- Residency, New England Deaconess Hospital, Harvard Medical School , Internal Medicine (1993)
- DSc, University of Athens School of Medicine, Athens, Greece , Biopathology (1996)
- MD, University of Athens School of Medicine, Athens, Greece , Medicine (1990)

## LINKS

- METRICS: <http://metrics.stanford.edu/>
- Stanford Prevention Research Center: <http://prevention.stanford.edu/>
- Wellness Living Laboratory: <http://med.stanford.edu/wellforlife.html>
- European Academy of Sciences and Arts: [www.euro-acad.eu](http://www.euro-acad.eu)
- Google Scholar: <http://scholar.google.com/citations?user=A9e6sPYAAAAJ&hl=en&oi=ao>
- Anatomy Lesson, Concertgebouw 11/2016: <https://www.youtube.com/watch?v=AbJmfcxeASc>
- Recommended dose (podcast): <https://soundcloud.com/therecodo/09-john-ioannidis>
- STEM talk: <https://www.ihmc.us/stemtalk/episode-77/>
- National Academy of Medicine: <https://nam.edu/>
- EMBL Forum Science and Society lecture: <https://www.youtube.com/watch?v=Tt7fdPrCP74>
- Gordon award lecture: <https://prevention.nih.gov/news-events/robert-s-gordon-jr-lecture-epidemiology/2019-awardee>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

My work is trying to optimize the chances of getting more reliable, trustworthy, and useful research. I have worked in the fields of evidence-based medicine, clinical investigation, clinical and molecular epidemiology, clinical research methodology, empirical research methods, statistics, and genomics. I have a strong interest in meta-research and in large-scale evidence (in particular randomized trials and meta-analyses) and in appraisal and control of diverse biases in biomedical research and beyond. I am interested in developing and applying new research methods, and in the interdisciplinary enhancement of existing research methods for study design and analysis. Some of my most influential papers in terms of citations are those addressing issues of reproducibility, replication validity, biases in biomedical research and other fields, research synthesis methods, extensions of meta-analysis, genome-wide association studies and agnostic evaluation of associations, and validity of randomized trials and observational research. I have also designed, steered and participated in influential randomized trials (in particular, the major trials that changed decisively the management and outcome of HIV infection, but also trials in nephrology, and in antibiotic use in the community), and large international consortia that have helped transform the efficiency of research in diverse fields of genomic, molecular and clinical epidemiology. I enjoy working with a diverse array of colleagues from very diverse disciplines and to have an opportunity to learn from both senior and junior investigators, and particularly students at all levels.

### CLINICAL TRIALS

- Personal Genomics for Preventive Cardiology, Not Recruiting

## Teaching

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### COURSES

#### 2019-20

- Meta-research: Appraising Research Findings, Bias, and Meta-analysis: CHPR 206, HRP 206, MED 206, STATS 211 (Win)
- Scientific Method and Bias: MED 73N (Win)
- The Cosmopolitan Introvert: Modern Greek Poetry and its Itinerants: COMPLIT 208 (Win)

#### 2018-19

- Meta-research: Appraising Research Findings, Bias, and Meta-analysis: CHPR 206, HRP 206, MED 206, STATS 211 (Win)
- Scientific Method and Bias: MED 73N (Win)
- The Cosmopolitan Introvert: Modern Greek Poetry and its Itinerants: COMPLIT 208 (Win)

**2017-18**

- Meta-research: Appraising Research Findings, Bias, and Meta-analysis: CHPR 206, HRP 206, MED 206, STATS 211 (Win)
- Scientific Method and Bias: MED 73N (Win)
- The Cosmopolitan Introvert: Modern Greek Poetry and its Itinerants: COMPLIT 208 (Aut)

**2016-17**

- Meta-research: Appraising Research Findings, Bias, and Meta-analysis: CHPR 206, HRP 206, MED 206, STATS 211 (Win)
- Scientific Method and Bias: MED 73N (Win)

**STANFORD ADVISEES**

**Postdoctoral Faculty Sponsor**

Valentin Danchev, Noah Haber, Perrine Janiaud, Jack O'Sullivan, Janneke van t Hooft

**Doctoral Dissertation Advisor (AC)**

Stelios Serghiou, Matthew Sigurdson, Yuan Jin Tan

**Master's Program Advisor**

Andrew Nepomuceno

**Postdoctoral Research Mentor**

Valentin Danchev, Noah Haber, Janneke van t Hooft