

Nicholas J. Anthis, D.Phil.

Program Officer, UC Research Initiatives

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SUMMARY OF QUALIFICATIONS

Higher education administrator and science policy professional with background in scientific research. Experienced in peer-review, grant management, scientific research, communication, and policy analysis/advocacy. In current role, oversee \$25 million portfolio of research grants across University of California system. In previous role, advanced U.S. federal policy in science, international cooperation, and innovation. Thirteen years of scientific research experience, including 16 peer-reviewed scientific publications on topics in biophysics and biomedical science. Experienced in communicating and framing complex information for a public audience through blogs, the web, and print media. Dedicated to public service, currently leading all-volunteer team producing policy updates and analyses. Analytical, resourceful, independently motivated; team player/leader; effective communicator.

EDUCATION

University of Oxford – Oxford, United Kingdom Thesis title: Structural Studies of Integrin Activation	D.Phil., Biochemistry Funding: Rhodes Scholarship	2009
Texas A&M University – College Station, Texas Minors: Chemistry, Mathematics	B.S., Biochemistry Summa Cum Laude, University/Foundation Honors	2005

PROFESSIONAL EXPERIENCE

Program Officer, UC Research Initiatives Jun 2016 – present
Research Grants Program Office, University of California Office of the President, Oakland, CA

Serve on a team that supports multicampus research across the University of California system.

- **Content leadership and expertise.** Serve as team lead for environmental and social sciences, applying knowledge from scientific research training to supporting research across UC System. In 2017-18, led pulmonary biology study section for the Tobacco-Related Disease Research Program (TRDRP).
- **Program planning and evaluation.** Serve as team lead for Multicampus Research Programs and Initiatives (MRPI). Responsible for program planning, coordinating review cycle, meeting milestones.
- **Grant review.** Personally manage several peer review panels per year, awarding at least \$10 million each year. Recruit subject-matter experts, prepare communications and materials, and run meetings.
- **Grant management.** Manage a \$25 million portfolio of research grants across four funding programs. Perform programmatic review of prefunding materials, progress reports, and change requests.
- **Communication and research dissemination.** Help manage program website (ucop.edu/research-initiatives). Monitor outcomes and coverage of awards and communicate and disseminate key outputs. Developed new webpages to communicate review and reporting requirements to UC researchers.
- **Project management.** Lead and contribute to office-wide and system-wide projects. Member of team implementing Robert Wood Johnson Foundation grant to improve open access policy compliance.
- **Research policy.** Helped implement UC policies on Multicampus Research Unit reporting and review. Coordinate with VP for Research & Graduate Studies and University Committee on Research Policy.

AAAS Science & Technology Policy Fellow Sep 2014 – May 2016
Middle East Bureau, U.S. Agency for International Development, Washington, DC

Supported program that reviews and manages awards for applied science research by joint teams of Arab and Israeli researchers. Reviewed proposals, conducted site visits, managed health/biomedical science portfolio. Organized conference on expanding impact of science through communication, policy, and commercialization. Collaborated on policy issues across bureaus, agencies, and working groups.

Office of Translational Alliances & Coordination, NHLBI, NIH, Bethesda, MD Sep 2015 – Feb 2016
Performed evaluation of commercial and clinical outcomes of Small Business Innovation Research (SBIR) grants. This was a temporary rotation I organized as part of my science policy fellowship.

Postdoctoral Fellow, Biophysics Nov 2009 – Sep 2014
Laboratory of Chemical Physics, NIDDK, National Institutes of Health, Bethesda, Maryland
 Performed research at government lab on biomolecular structure, dynamics, and function, especially characterizing transient and otherwise invisible states of proteins. Published in major scientific journals.

VOLUNTEER EXPERIENCE: POLICY, ADVOCACY, & COMMUNICATION

Lead, Science & Technology; Director, Policy Nov 2016 – present
RISE Stronger (risestronger.org)
 Lead team that tracks science and technology policy issues for progressive watchdog organization. Manage program of policy working groups across range of disciplines. Monitor and analyze federal legislation and executive branch activity. Produce weekly policy summaries, calls to action, and other policy analyses and advocacy products. Coordinated op-ed campaign that placed 15 op-eds in local papers throughout the U.S. in support of government funding for science.

Vice-Chair Nov 2016 – present
Engineers & Scientists Acting Locally (esal.us)
 Co-founded nationwide organization dedicated to increasing local civic engagement of STEM-trained professionals. Organize events, produce web content, connect scientists and policymakers.

President & Founder Mar 2015 – May 2016
Higher Education and Research Administration Affinity Group, AAAS S&T Policy Fellowship
 Founded group of science policy fellows focused on higher education and research issues. Planned seminars, submitted policy advice to congress, produced resources for scientists.

Deputy Chair Sep 2014 – Jun 2016
Science Diplomacy Affinity Group, AAAS S&T Policy Fellowship
 Co-led group of science policy fellows focused on science diplomacy issues. Helped organize careers panel and two major symposia on current science diplomacy topics (Cuba and Syria).

Science Blogger Jan 2006 – May 2010
The Scientific Activist
 Founded a 10,000-visitor-per-month website featuring news and commentary on science and politics. Named one of the Top Five Science Blogs on the internet by *Nature* magazine.

Science Writer Jan 2005 – May 2005
The Battalion, Texas A&M University's Student Newspaper
 Wrote feature articles on local, national, and international science news. Also wrote opinion articles.

VOLUNTEER EXPERIENCE: SOCIAL & ATHLETIC

Social Director Jan 2017 – present
UC Office of the President Professional Community (OPPC)
 Organize happy hours and social events for UC Office of the President employees.

Team Captain Jan 2012 – present
USTA League Tennis, World Team Tennis
 Recreational league tennis team captain. Advanced to USTA League National Championships in 2013.

HONORS & AWARDS

2017 STAR Award for Outstanding Contributions to the University of California
 2014 Honorable Mention, 12 Under 12 Young Alumni Spotlight, Texas A&M University
 2011 NIDDK Nancy Nossal Fellowship Award
 2011 Fellows Award for Research Excellence (FARE), NIH Fellows Committee
 2008 Paper of the Week, *Journal of Biological Chemistry*
 2006 Top Five Science Blogger, *Nature*
 2005 Rhodes Scholarship
 2003 Barry M. Goldwater Scholarship

SCIENTIFIC PUBLICATIONS

16. Anthi N.J. & Clore G.M. (2015) Visualizing transient dark states by NMR spectroscopy, *Quarterly Reviews of Biophysics*, **48**, 35-116.
15. Anthi N.J. & Clore G.M. (2013) The length of the calmodulin linker determines the extent of transient interdomain association and target affinity, *Journal of the American Chemical Society* **135**, 9648-51.
14. Anthi N.J. & Clore G.M. (2013) Sequence-specific determination of protein and peptide concentrations by absorbance at 205 nm, *Protein Science* **22**, 851-8.
13. Grishaev A., Anthi N.J., Clore G.M. (2012) Contrast-matched small-angle X-ray scattering from a heavy-atom-labeled protein in structure determination: application to a lead-substituted calmodulin-peptide complex, *Journal of the American Chemical Society* **134**, 14686-9.
12. Anthi N.J., Doucleff M., Clore G.M. (2011) Transient, sparsely populated compact states of apo and calcium-loaded calmodulin probed by paramagnetic relaxation enhancement: interplay of conformational selection and induced fit, *Journal of the American Chemical Society* **133**, 18966-74.
11. Fawzi N.L., Fleissner M.R., Anthi N.J., ..., Clore G.M. (2011) A rigid disulfide-linked nitroxide side chain simplifies the quantitative analysis of PRE data, *Journal of Biomolecular NMR* **51**, 105-14.
10. Anthi N.J. & Campbell I.D. (2011) The tail of integrin activation, *Trends in Biochemical Sciences* **36**, 191-8.
9. Anthi N.J., Wegener K.L., Critchley D.R., Campbell I.D. (2010) Structural diversity in integrin/talin interactions, *Structure* **18**, 1654-66.
8. Kalli A.C., ..., Anthi N.J., Campbell I.D., Sampson, M.S.P. (2010) The structure of the talin/integrin complex at a lipid bilayer: an NMR and MD simulation study, *Structure* **18**, 1280-8.
7. Anthi N.J., ..., Campbell I.D. (2009) β integrin tyrosine phosphorylation is a conserved mechanism for regulating talin-induced integrin activation, *Journal of Biological Chemistry* **284**, 36700-10.
6. Goult B.T., ..., Anthi N.J., Campbell I.D., ..., Critchley D.R. (2009) The structure of the N-terminus of kindlin-1: a domain important for α Ib β 3 integrin activation, *Journal of Molecular Biology* **394**, 944-56.
5. Anthi N.J., ..., Campbell I.D. (2009) The structure of an integrin/talin complex reveals the basis of inside-out signal transduction, *The EMBO Journal* **28**, 3623-32.
4. Goult B.T., Bate N., Anthi N.J., ..., Campbell I.D., Roberts G.C., Critchley D.R. (2009) The structure of an interdomain complex that regulates talin activity, *Journal of Biological Chemistry* **284**, 15097-106.
3. Oxley C.L., Anthi N.J., ..., Campbell I.D., Wegener K.L. (2008) An integrin phosphorylation switch: the effect of β 3 integrin tail phosphorylation on Dok1 and talin binding, *Journal of Biological Chemistry* **283**, 5420-6.
2. Fisher K.E., Pop A., Koh W., Anthi N.J., Saunders W.B., Davis G.E. (2006) Tumor cell invasion of collagen matrices requires coordinate lipid agonist-induced G-protein and membrane-type matrix metalloproteinase-1-dependent signaling, *Molecular Cancer* **5**, 69.
1. Saunders W.B., ..., Anthi N.J., ..., Davis G.E. (2006) Coregulation of vascular tube stabilization by endothelial cell TIMP-2 and pericyte TIMP-3, *The Journal of Cell Biology* **175**, 179-91.

OTHER PEER-REVIEWED/ACADEMIC PUBLICATIONS

- Stoepler T.M., Creswell, J.E., Anthi N.J., Chaverneff, F., Parkhurst, R.R. (2017) The role of science diplomacy in international crises: Syria as a case study, *Science & Diplomacy* **6**.
- Batts S.A., Anthi N.J., Smith T.C. (2008) Advancing science through conversations: bridging the gap between blogs and the academy, *PLoS Biology* **6**, e240.

ACADEMIC THESES

- Anthi N.J. (2009) *Structural Studies of Integrin Activation*, University of Oxford, D.Phil. thesis.
- Anthi N.J. (2004) *Sphingosine-1-Phosphate Inhibits the Migration of Vascular Smooth Muscle Cells by Activating RhoA and G_{al2}*, Texas A&M University, undergraduate senior honors thesis.

OTHER PUBLICATIONS

Articles published in the *Fort Worth Star-Telegram* and other online and print venues.