

## **GALAMA Titus, PhD, MBA**

### **Contact details**

RAND Corporation, 1776 Main Street, Santa Monica, CA 90407-2138, U.S.A.

Ph: +1 310 393 0411 x6057; Fax: +1 310 260 8158

Email: [galama@rand.org](mailto:galama@rand.org)

---

### **PROFESSIONAL EXPERIENCE**

#### **POSITIONS HELD**

9/2006 – Current	<b>RAND Corporation</b> – Economist (Health, Labor, Human Capital, Competitiveness)	<b>Santa Monica, USA</b>
1/2006 – 8/2006	<b>RAND Europe</b> – Senior Policy Analyst (Education, Science and Technology)	<b>Leiden, The Netherlands</b>
12/2003 – 12/2005	<b>L.E.K. Consulting, LLC</b> – Senior Strategy Consultant	<b>Los Angeles, USA</b>
9/1999 – 9/2002	<b>California Institute of Technology</b> - Fairchild Postdoctoral Prize Fellow	<b>Pasadena, USA</b>
1/1996 – 9/1999	<b>University of Amsterdam</b> - Ph.D. Researcher in Astrophysics	<b>Amsterdam, The Netherlands</b>

### **KEY SKILLS / ACHIEVEMENTS**

#### **People management, interpersonal and organizational skills**

- Demonstrated organizational and client management skills in variety of projects. Examples are: (a) worked with RAND and client teams to assist the government of Mexico City in devising a strategy for technology based economic development and b) identified and implemented, together with client-management team, various process improvement projects for a top 10 health insurance provider (L.E.K.).
- Showed leadership, organizational and communication skills (Caltech and U. of Amsterdam) in operating large observational programs (directed teams of about 20-40 people) with a worldwide network of telescopes; Attaining NASA grants for our team's research: \$500,000 (2000) and \$350,000 (2001); Initiating successful international collaborations (universities in Europe / USA); Organizing scientific meetings and conferences.

#### **Complex strategic and scientific problem-solving skills and innovation**

- Developed theoretical framework for understanding disparities in health by socioeconomic status (RAND)
- Developed analytic human capital model to investigate the economics of health and retirement (RAND).
- Assessed U.S. competitiveness in science and technology and the performance of the U.S. science and engineering workforce (RAND) using a variety of data sources and methodologies.
- Showed vision and entrepreneurial skills in proposing a European Institute of Technology (EIT) three years before European Commission president E. Barroso proposed the exact same idea (a hot topic in the European debate on innovation and economic growth) – initiated and led feasibility study at business school INSEAD (2003), published Financial Times opinion editorial (2/22/2006) and RAND paper (WR-346), invited as one of eight EIT experts to the European Commission, interviewed with BBC world (radio) and CNBC (TV).
- Evaluated strategic options (L.E.K.) for several technology companies. Some examples are: a top 5 (worldwide) computer hardware technology company on entering the U.S. healthcare market, a top 5 (worldwide) pharmaceutical and academic instrumentation and reagent company on entering the cell biology market.
- Showed thought leadership (Caltech and U. of Amsterdam) through persistently defining new areas of research. Two of the discoveries presented in my Ph.D. thesis were considered the 5th and 10th most significant scientific discoveries of 1997 and 1999, respectively (Science magazine). Published 57 articles in astrophysics, six in Nature, 16 with more than 100 citations, h-index of 39 (39 papers with 39 or more citations).
- As an independent postdoctoral research fellow (Caltech) and as a Ph.D. researcher (U. of Amsterdam), developed theoretical models to interpret astrophysical observations (articles are extensively cited).

#### **Communication, presentation and teaching skills**

- Presented results of RAND analysis and L.E.K. case work to a diverse set of clients and stakeholders (briefed several congressional offices [House Homeland Security Committee, the House Science and Technology Committee, the House Armed Services Committee, Representative Vernon Ehlers and Representative Rush Holt's offices, the Senate Armed Services Committee, and the Senate Commerce, Science, and Transportation Committees] on U.S. competitiveness in science and technology; Qatar Supreme Education Council and Her Highness on Education Reform; Mexico City government on technology-based economic development; bio- and high-technology companies, healthcare firms, etc on business strategy/market analysis)
- Spoke at professional meetings on U.S. Competitiveness in Science and Technology (83<sup>rd</sup> meeting Western Economic Association [2008]; IEEE [2008]; participated in expert panel at 2008 NASULGC meeting)
- Presented a theory of health capital, a theory of disparities in health by socioeconomic status and an analytic model of health and retirement at various meetings, seminars: iHEA, Toronto, Canada (July, 2011); University of Tilburg, Netherlands (June, 2011); Erasmus Medical Center, Netherlands (April, 2011); University of Lausanne, Switzerland (November, 2010); Harvard Center for Population and Development studies (July, 2010); University of Southern California (June, 2010); U. of Tilburg (March 2009); Tinbergen seminar series at the Erasmus University in Rotterdam (March 2009); NETSPAR conference, Amsterdam (March 2009); American Economic Association (AEA) meeting (Jan 2009).
- Presented several invited lectures and colloquia on astrophysics at universities, NASA, ESO and at numerous conferences and meetings throughout Europe and the USA (1995 – 2003).
- Supervised RAND fellows and L.E.K. associates in project work and graduate students in research.
- Lectured undergraduate courses in observational astrophysics, physics and mathematics. Also, taught mathematics and physics to all levels at a prestigious high school.

## Media and outreach

- Gave media interviews on the perception that the U.S. is losing its edge in science and technology, the role of foreigners in the science and engineering workforce, the idea of a European Institute of Technology for several European, Asian and American newspapers, science magazines, radio (BBC world, American Public Radio), and TV (CNBC). Gave media interviews on astrophysics for several European and American newspapers, popular science magazines, radio, and television (e.g., PBS's Nova [USA] and Channel Four [UK]). Play a central role in PBS Nova documentary titled "Death Star".

## Awards and distinctions

- My publications are highly cited and my h-index is above 40.<sup>1</sup>
- Invited by Nobel Laureate J. Heckman and Dr. Conti of the U. of Chicago, to join their Health Inequality Network (2011), <http://mfi.uchicago.edu/humcap/groups/hi/hi.shtml>
- Principal Investigator on National Institute of Aging (NIA) research grant (R01) aimed at improving our understanding of disparities in health between socioeconomic status groups: \$ 2,500,000 (2010).
- European Commission's (Research Directorate General) Descartes Prize (2002) for our team's research.
- 'Vernieuwingsimpuls' Award: € 800,000 awarded by the Dutch National Science Foundation (NWO) to start a research group at the University of Amsterdam; declined (2001).
- Christiaan Huygens Award: € 9,000 awarded by the Minister of Education, Culture and Sciences on behalf of the Dutch Royal Academy of Sciences for the most outstanding thesis in astrophysics (2000).
- Fairchild Postdoctoral Prize Fellowship (\$ 150,000). Accepted this position and declined two other prize fellowships: the Hubble and Chandra Prize Fellowships (each \$ 150,000; 1999).

## Selected publications

### Policy research

- Galama, T.J. and Kapteyn, A. (2011) 'Grossman's missing health threshold', **Journal of Health Economics** 30(5): 1044-1056.
- Avendano, M. and Galama, T.J. (2011) 'Inequalities in mortality in the US and Denmark: More alike than different. A commentary on Hoffman', **Social Science and Medicine** 73(11): 1569-1572.
- Galama, T.J. (2011) 'A contribution to health capital theory', **RAND**, WR-831.
- Galama, T.J. and H. van Kippersluis (2010) 'A theory of socioeconomic disparities in health over the life cycle', **RAND**, WR-773.
- Fonseca, R., Michaud, P.C., Galama, T.J. and Kapteyn, A. (2010), 'On the rise of health spending and longevity', **RAND** WR-722 (revise and resubmit Journal of Political Economy).
- Galama, T.J., Kapteyn, A., Fonseca, R., Michaud, P.C., (2009) 'Grossman's Health Threshold and Retirement', **RAND**, WR-658 (revise and resubmit Health Economics).
- Galama, T.J. and Hosek, J. (2009) 'Global competitiveness in science and technology and the role of mobility', chapter six of the 2nd volume in the **Global Education Research Reports series** by the Institute of International Education (IIE) and American Institute for Foreign Study (AIFS) foundation).
- Galama, T.J. and Hosek, J., (2008) 'U.S. competitiveness in science and technology', **RAND** Monograph, MG674
- Galama, T.J. and Hosek, J. (editors), (2007) 'Perspectives on U.S. competitiveness in science and technology', **RAND** CF235

### Outreach

- Galama, T.J. and Hosek, J., (2008) 'U.S. Science is Holding its Own: Despite Cries of Alarm, We Remain the Global Leader in Innovation', **Pittsburgh Post-Gazette**, 7/9/2008
- Galama, T.J. and Frinking, E. 'Making Europe a home fit for the next Einstein', **Financial Times**, 2/22/2006

### Astrophysics

Authored 57 publications in astrophysics, published in major scientific journals (e.g., Nature [6]).

- Van Paradijs J., Groot P.J., Galama T.J., et al. 1997, **Nature**, 386, 686-689 (652 citations [ADS]).
- Galama, T.J. et al. 1997, **Nature**, 387, 476-478 (75 citations [ADS]).
- Galama, T.J. et al. 1998, **Nature**, 395, 670-672 (1028 citations [ADS]).
- Galama, T.J. et al. 1999, **Nature**, 398, 394-399 (135 citations [ADS]).
- Wijers, R. and Galama, T.J. 1999, **Astrophysical Journal**, 523, 177-186 (272 citations [ADS]).
- Galama, T.J. and Wijers, R. 2001, **Astrophysical Journal Letters**, 549, 209-213 (165 citations [ADS]).

## EDUCATION

6/2011

**University of Tilburg**, Ph.D. Economics

**The Netherlands**

9/2002 – 8/2003

**INSEAD**, MBA Program (*Elmar Schulte Diversity Scholarship*)

**Singapore/France**

9/2001 – 9/2002

**California Institute of Technology**, Engineering & Project Management Certificates

**Pasadena, USA**

1/1996 – 9/1999

**University of Amsterdam**, Ph.D. Physics (*'cum laude'*; top 2%)

**The Netherlands**

9/1989 – 12/1995

**University of Amsterdam**, M.Sc. Physics (*'cum laude'*; top 5%)

**The Netherlands**

## LANGUAGES

Dutch (Native) English (Fluent) Spanish (Proficient) German, French (Conversational)

## COMPUTER SKILLS

Extensive programming experience: (I.T. operating systems: *Unix, Linux, Windows Xp*, Computer languages: *Mathematica, Pascal, Fortran, C++, HTML, LaTeX*. Software: *Word, Excel, Powerpoint, Crystal Ball, etc*)

## OTHER EXPERIENCE

Elected to represent the student body at the U. of Amsterdam (Dep. of Physics; 1992-1994)

**The Netherlands**

<sup>1</sup> The h-index measures both productivity and impact. A scholar with an index of h has published h papers each of which has been cited by others at least h times. My h-index is 45 according to Harvard ADS Abstract Service, 45 according to Google Scholar, and 37 according to Web of Science.