

# Salman A. Hameed

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## EDUCATION:

- May 2001     **Ph.D. Astronomy**  
New Mexico State University
- May 1997     **M.S. Astronomy (Physics minor)**  
New Mexico State University
- May 1994     **B.S. Physics & Astronomy**  
State University of New York, Stony Brook

## POSITIONS:

- 2012-         **Charles Taylor Chair and Associate Professor of Integrated Science  
& Humanities**  
School of Cognitive Science, Hampshire College
- 2005-2012    **Charles Taylor Chair and Assistant Professor of Integrated Science  
& Humanities**  
School of Cognitive Science/School of Natural Science, Hampshire  
College
- 2011-         **Director, Center for the Study of Science in Muslim Societies (SSiMS)**  
Hampshire College
- 2001-2005    **Five College Astronomy Department Research and Education Fellow**  
Astronomy Department, Smith College

## RESEARCH INTERESTS:

Science in Muslim Societies, Science & Religion, Sociology of Religion, Public Policy, Science Education, Psychology of Belief.

## **PUBLICATIONS:**

- 2016      *Evolution and Islam: Media Spectacle and the Construction of Scientific Authority*  
**Hameed S.** 2015, *Evolution and Islam*, Edited by Anila Asghar (Springer), manuscript submitted
- Preaching Science and Islam: Dr. Zakir Naik and the Discourses of Science and Islam in Internet Videos*  
Gardner, V., Mayes, C. & **Hameed S.**, journal manuscript submitted
- Muslims and Evolution: A Study of Malaysian and Pakistani Physicians and Medical Students*  
Hameed S., Orsky, G., Asghar, A., and Everhart, D., journal manuscript submitted
- Science and Islam Videos: Creating a methodology to find “all” unique Internet videos*  
Gardner, V. & **Hameed S.**, journal manuscript submitted
- 2015      *Making Sense of Islamic Creationism in Europe*  
**Hameed, S.** 2015, *Public Understanding of Science*, 24, 4, 388-399
- Evolution of Species, Islamic Ideas*  
**Hameed, S.** 2015, *Encyclopedia of Astrobiology*, 2<sup>nd</sup> Edition, ed. Garguad, M., (Springer Reference), in press
- A Mosaic of the Reception of Biological Evolution in the Muslim World*  
**Hameed, S.** 2015, *Journal of Public Understanding of Science*, manuscript submitted
- 2014      *Evolution in Biology Textbooks: A Comparative Analysis of 5 Muslim Countries*  
Asghar, A., **Hameed, S.** & Farahani, 2014, *Religion and Education*, 41: 1-15
- 2013      *Muslims and Evolution: A Study of Pakistani Physicians in the US.*  
Everhart, D., & **Hameed, S.** 2013, *Evolution: Education and Outreach*, 6:2
- 2012      *Walking the tightrope of the Science & Religion boundary*  
**Hameed, S.** 2012, *Zygon*, 47, 2, 337

- 2010 *Evolution and creationism in the Islamic world*  
**Hameed, S.** 2010, *Science & Religion: New Historical Perspectives*,  
 Edited by Thomas Dixon, Stephen Pumfrey, Geoffrey Cantor (Cambridge  
 University Press), 2010
- 2008 *Bracing for Islamic Creationism*  
**Hameed, S.** 2008, *Science* 322, 1637
- Discovery, photometry, and astrometry of 49 classical nova candidates in  
 M81 galaxy,*  
 Hornoch, K.; Scheirich, P.; Garnavich, P. M.; **Hameed, S.**; Thilker, D. A.  
 2008, *Astronomy & Astrophysics* 492, 301
- 2007 *Chandra and XMM-Newton Detection of Large-scale Diffuse X-ray  
 Emission from the Sombrero Galaxy*  
 Li, Z., Wang, D., and **Hameed, S.** 2007, *Monthly Notices of Royal  
 Astronomical Society*, 367, 960
- 2005 *H $\alpha$  Imaging of Early-type (Sa-Sab) Spiral Galaxies II. Global Properties*  
**Hameed, S.** and Devereux, N. 2005, *Astronomical Journal*, volume 129,  
 2597
- 2003 *The Role of Interactions in the Evolution of Early-type Spirals*  
**Hameed, S.** and Young, L. 2003, *Astronomical Journal*, volume 125,  
 3005
- 2001 *The Discovery of a Giant Ionized Filament in NGC 7213*  
**Hameed, S.**, Blank, D., Young, L. and Devereux, N. 2001, *Astrophysical  
 Journal Letters*, volume 546, 97
- 1999 *H $\alpha$  Imaging of Early-type (Sa-Sab) Spiral Galaxies I.*  
**Hameed, S.** and Devereux, N. 1999, *Astronomical Journal*, volume 118,  
 730
- 1997 *Massive Star Formation Along the Hubble Sequence*  
 Devereux, N. and **Hameed, S.** 1997, *Astronomical Journal*, volume 113,  
 599

### **DISSERTATION:**

- 2001 *Massive Star Formation in Early-type (Sa-Sab) Spiral Galaxies*, New  
 Mexico State University

## **GRANTS and AWARDS:**

- 2015-16      **Templeton Religion Trust (PI) [\$201,000]**  
*Analyzing the discourse and participants in Science & Islam online videos*
- 2014-15      **Templeton Foundation (PI) [\$199,000]**  
*Islam and Science Video Portal Project*
- 2009-2013    **National Science Foundation (PI) [\$374,000]**  
Evolution and Islam: Acceptance of biological evolution and perspectives on science & religion among Muslim physicians and medical students (award #0925982)
- 2009          **Carnegie Foundation grant (PI) [\$50,000]**  
To organize an international conference on *Darwin & Evolution in the Muslim world* at Hampshire College, Oct 2-3, 2009
- 2006-09      **NASA funding for Spitzer Space Telescope Cycle-3 (Co-I) [\$30,000]**  
*Evolution of Compact Extreme Starburst Galaxies*
- 2005          **American Astronomical Society Small Research Grant (PI) [\$2,500]**  
To publish results in the *Astronomical Journal*
- 2002-04      **Hubble Space Telescope Research Grant (Co-I) [\$25,000]**  
*The influence of blending on synthetic model-based interpretation of the HII region luminosity function*  
Grant No.: HST-AR-09551.03A
- 2001          **American Astronomical Society International Travel Grant (PI)**  
To present research at “Galaxy Disks and Disk Galaxies” conference in Rome, Italy
- 1998          **Pegasus Award** (NMSU), in recognition of outstanding teaching by a graduate student
- 1998          **Graduate Research Award** (NMSU), in recognition of outstanding presentation of research at Graduate Research and Arts Symposium

## **INVITED TALKS, CONFERENCE and SEMINAR PRESENTATIONS: (2007-present)**

“Fluid Science & Religion Boundaries Amongst Muslim Physicians and Medical Students”, for workshop on *Science & Religion - Exploring the Spectrum*, York University, Toronto, Canada, May 26-28, 2015

“Islamic Creationism in Europe: Biological Evolution in the Service of ‘Clash of Civilization’ Narrative”, invited talk at *McGill Centre for Islam and Science (MCIS)*, *McGill University*, Montreal, Canada, March 27, 2015

“Muslims and Evolution: Reception of Biological Evolution Amongst Muslim Physicians and Medical Students in Six Countries”, as part of a panel at the annual meeting of *Society for the Scientific Study of Religion (SSSR)*, Indianapolis, Indiana, October 31, 2014

“Overcoming Identity Protection: Understanding the context of evolution rejection amongst Muslim minorities in Europe and lessons for science communication”, for Annenberg Science of Science Communication Conference, *The Annenberg Public Policy Center*, UPenn, PA, October 16, 2014

“Evolution, Islam, and the Fluid Perceptions of Science & Religion”, invites talk for Arts and Sciences Symposium at *New Mexico State University*, Las Cruces, April 7, 2014

“The Reception of Biological Evolution: Fluid Science & Religion Boundaries amongst Muslim Medical Students”, as part of a panel at *Society for the Scientific Study of Religion (SSSR)*, Boston, MA, November 8, 2013

“Evolution, Islam, and Modernity: The Reception of Biological Evolution in Malaysia and Pakistan”, as part of a panel at *Middle Studies Association (MESA)*, New Orleans, LA, October 13, 2013

“Islamic Creationism in UK”, Keynote talk at *Social Relations and Human Security Conference* at *Coventry University*, UK, March 23, 2013

“Negotiating Science & Religion: Muslim Perceptions of Biological Evolution”, a seminar talk at the Centre for Religious and Cross-cultural Studies at *Gadjah-Mada University*, Yogyakarta, Indonesia, October 3, 2012

A panel discussion on *religion and cosmology* at University of Iowa, organized by *American Islamic Congress (AIC)*, April 4, 2012

“How do Muslims across the world view modern science”, an invited talk at *Lewis & Clark College*, Portland, Oregon, February 10, 2012

“Muslims, Modernity, and Science: Lessons from contemporary debates over evolutionary biology”, an invited talk at *Lund University*, Sweden, November 14, 2011

“Negotiating Science and Religion: Muslim Perceptions of Biological Evolution”, an invited talk at the *CMES Colloquium Series* at *Yale University*, September 28, 2011

“Communicating biological evolution in the Muslim world”, as part of a panel on *Evolution in the Evolving World of Journalism* at the *World Conference of Science Journalists*, Doha, Qatar, June 27-29, 2011

“Should we bring back the Neanderthals”? As part of the panel on *Ethical Values and Human Responsibility* at the conference on *Belief in Dialogue: Science, Culture, and Modernity*, at the American University of Sharjah, United Arab Emirates, June 21-23, 2011

“Muslims, Modernity, and Science: Lessons from contemporary debates over evolutionary biology”, for a panel on *Belief and Modernity: Behaviours and Intellectual Traditions*, as part of the *Belief in Dialogue Symposium*, organized jointly by the *British Academy* and the *British Council*, London, England, March 29, 2011

“Navigating Modernity: Science, Islam, and Global Media”, for a panel on *Global Media, Global Perspectives*, sponsored by the *Global Studies Initiative* at Whitman College, Walla Walla, Washington, February 26, 2011

“The Acceptance of Evolution in the Muslim World - The Glass half-full version”, for a panel on *The Challenge of Teaching Evolution in the Islamic World* at the annual meeting of the *American Association for the Advancement of Science (AAAS)*, Washington, D.C., February 18, 2011

“Islamic Creationism in Europe”  
As part of a panel on *Creationism in Europe* at the annual meeting of *Society for the Scientific Study of Religion (SSSR)*, Baltimore, Maryland, October 29, 2010

“Science education and evolution in the Muslim world”  
A seminar talk at the Department of Education, University of Bosphorus (Bogazi Universitesi), Istanbul, Turkey, Oct 15, 2010

“Science education and the challenge of Islamic creationism”  
STEM Education talk at UMass, Amherst, MA, December 1, 2009

“Understanding the rise of creationism in the Muslim world”  
Conference presentation at *Darwin’s Legacy* in Alexandria, Egypt, November 14-16, 2009

“What is ‘Islamic Creationism’ and how is it different from ‘Young Earth Creationism’?”  
Conference presentation for *Communicating Darwin’s Ideas: Richness and opportunity*, York, UK, Oct 27, 2009

“The religious framing of Darwin and evolution in Pakistan”

Conference presentation for *Darwin and Evolution in the Muslim World* at Hampshire College, MA, October 2, 2009

“Muslim Responses to Darwinism in South Asia 1859-2009”

Conference presentation for *Religious Responses to Darwinism 1859-2009* at Oxford University, UK, July 15-18, 2009

“Muslim Perspectives on Evolution and Science & Religion”

Conference presentation for *McGill Symposium on Islam & Evolution*, Montreal, Canada, March 30-31, 2009

“The Debate over Darwin and Evolution in the Contemporary Islamic World”

Conference presentation for *Darwin's Reach* conference at Hofstra University, NY, March 13, 2009

“Colliding cosmologies on top of Mauna Kea”

Invited talk at Yale University, New Haven, November 13, 2008

“The impact of creationist documentaries in the Muslim world”

Conference presentation on a panel on *Darwin and the evolution-Intelligent Design aftermath*, as part of Film & History conference on *Film and Science: Fiction, Documentaries and Beyond*, Chicago, Oct 30-Nov 2, 2008

“Bracing for Creationism in the Islamic World”

Invited talk at Creighton University, Omaha, September 30, 2008

“Darwin versus gods from outer space”

A presentation as part of UMass *Interdisciplinary Seminar in Humanities and Arts (ISHA)* on the theme of *Other Worlds*, April 2008

“Attitude towards science and the rise of creationism in contemporary Islamic world”

Conference presentation at *The Annual History of Science Conference*, on the theme of *Science & Religion: Historical and Contemporary Perspectives*, Lancaster University, Jul 23-26, 2007

## **SCIENCE COMMUNICATION ON RADIO AND NEW MEDIA:**

*Science ka Adda+ (Café Scientifique)*, serve as a writer and the host of a monthly internet series on astronomy in Urdu. Since February 2015. All episodes are available for free at [sciencekaadda.com](http://sciencekaadda.com)

*Mr. Universe*, a weekly segment on astronomy for *WRSI 93.9* hosted by Monte Belmonte (audio archives available at <http://wrsi.com/monte/>). Since January 2015.

*Musings on the Ridiculously Large and Largely Ridiculous Universe*, a live monthly segment on the *Bill Newman Show* on *WHMP* (AM1400, FM96.9) since 2011

*Hamari Kainaat (Our Universe)*, a bi-weekly podcast on astronomy in Urdu. Since January 2015. All episodes are available for free at [hamarikainaat.com](http://hamarikainaat.com)

## **TEACHING EXPERIENCE:**

### Latest classes

S2016      **Evolution, Islam and Modernity / Biological Evolution in the Muslim World**  
(300-level)

**Creating Science Fiction Short Films using Real Science** w/ Jason Tor  
(200 level)

F2015      **Biological Evolution in the Public Sphere**  
(200-level)

**Aliens: Close Encounters of a Multi-disciplinary Kind**  
(100/300 level)

### Past Teaching (all at Hampshire College)

#### **Science & Religion Courses:**

Science in Contemporary Muslim world – 1800-Present (300-level)

Science in the Muslim World – 610-1800CE (200-level)

History and Philosophy of Science & Religion w/ Laura Sizer (300-level)

Science & Religion: Origins w/ Laura Sizer (100 level)

#### **Astronomy and other interdisciplinary classes:**

Astrobiology w/ Jason Tor and Darby Dyar (200/300 level)

Astrophysics of Stars and Galaxies (200 level)

The Art of Communicating science through electronic media w/ Hugh Crowl (200 level)

Astronomy and Public Policy (200 level)



## POPULAR ARTICLES AND RADIO INTERVIEWS

### Reviews for the journal *Science*:

“Finding our place among the stars”, review of film *Interstellar* for *Science*: 19 December, 2014, vol 346, no. 6216, p. 1464-1465

“The Joy and Fear in Space Exploration”, review of films *Europa Report* and *Gravity*, published in *Science*, November 8, 2013 (vol. 342, p. 695)

“Searchers in a Desert”, review of film *Nostalgia for the Light*, published in *Science*, July 22, 2011 (vol. 333, no. 6041, p. 407)

### Articles for Pakistani newspapers:

“Can Earth’s bigger, older cousin sustain life as we know it”? *The Express Tribune*, July 28, 2015

“We are making history today with our closest approach to Pluto”, *The Express Tribune*, July 14, 2015

“If a Pakistani went to Mars...”, *The Express Tribune*, February 20, 2015

“A One-way Ticket to Mars”, *The Express Tribune - Sunday Magazine*, August 31, 2014

“A Plethora of planets”, *The Express Tribune - Sunday Magazine*, July 13, 2014

“Cosmic Bling”, *The Express Tribune – Sunday Magazine*, September 15, 2013

“Urdu Floating at the Edge of our Solar System”, *The Express Tribune – Sunday Magazine*, August 8, 2013

“Anticipating a glorious death of our Sun”, *The Express Tribune - Sunday Magazine*, July 7, 2013

“Science, Religion, and the Building of Scientific Culture in Pakistan” (published under the title of “The Science of Scriptures”), *Sunday Magazine, Pakistan Express, Tribune*, August 28, 2011

“Looking to the Heavens: Telescopes versus Terrorism in Pakistan”, *Sunday Magazine, Pakistan Express, Tribune*, June 5, 2011

“Nature and Natural Disasters”, published on the Internet Magazine, Chowk, October 2, 2006

“Listening to the Cries of Baby Stars”, published on the Internet Magazine, Chowk, April 16, 2006

“The Travelogue of an Astronomer”, first published in the Weekend Magazine section of Daily Dawn, Pakistan, October 17, 2004

“Searching for Identity in Our Little Corner of the Universe”, published in the Science section of Daily Dawn, Pakistan, June 7, 2003

#### **Articles for *The Guardian*:**

“Muslim thought on evolution takes a step forward”, *The Guardian*, January 11, 2013

“Blasphemy Laws are darkening the skies of Pakistan”, *The Guardian*, November 9, 2012

“When Evidence is Powerless” an op-ed in *The Guardian*, June 24, 2011

“Muslims must be free to debate issues such as evolution without fear” an op-ed in *The Guardian*, April 9, 2011

“How to quell the rise of Muslim Creationism”, for the Guardian Science Blog, December 12, 2008

#### **Interviews about research:**

An interview with Robert Wright on The Wright Show, September 19, 2015

“Radicals and Moderates: Faith, Reason and Islam”, on Encounter on ABC Radio National (Australia), June 14, 2014

Interview on *World This Morning*, Pakistan Television World, December 18, 2013

“Social Media in Pakistan”, a discussion on *VoA's Access Point* with Ayesha Tanzeem, January 24, 2013

An interview with the Turkish newspaper, *Taraf*, May 20, 2012.

“Hampshire opens Center for the Study of Science in Muslim Societies”, an interview with Amherst *NPR* station, *WFCR*, November 15, 2010

“The Purple Interview: Faith, Hope, Science and Caprica”, an interview with *Purple State of Mind*, February 2, 2010

“Darwin in the World – Evolution and Faith in the 21<sup>st</sup> Century”, a *BBC* debate held at *Bibliotheca Alexandrina*, Alexandria, Egypt, on November 14, 2009

“Creationism in the Muslim World, an interview with *Word of Mouth*” on *New Hampshire Public Radio*, September 30, 2009

“Creationism in Turkey”, an interview on *PRI’s The World*, July 1, 2009

“10 minutes with Salman Hameed”, an interview with *Religion News Service*, February 11, 2009

“Darwin’s Disciple: Hampshire professor promotes theory of evolution in Muslim world”, an article based on an interview with *Daily Hampshire Gazette*, January 10, 2009

“Evolution and Islam”, an interview on *PRI’s The World*, December 11, 2008

“How to stop creationism gaining a hold in Islam”, an interview with the *New Scientist*, December 11, 2008

### **RESEARCH REFERENCED IN POPULAR PRESS:**

“Atheists need to run an Alpha course of their own”, Andrew Brown’s blog on *The Guardian*, March 25, 2013

“Islam and Science: The Road to Renewal”, *The Economist*, January 26, 2013

“Complex Islamic Response Emerges from Study”, *SciDev Net*, June 29, 2011

“Does Islam Stand Against Science”? *Chronicle of Higher Education*, June 19, 2011

“Evolution Abroad: Creationism Evolves in Science Classrooms Around the World”, *Scientific American*, March 2011

“Hampshire College Announces Center for the Study of Science in Muslim Societies”, *Ascribe*, October 27, 2010

“Origin of a translation”, *Egypt Today*, January 2010

“Study of acceptance of evolution among Muslim physicians”, *AScribe Newswire*, November 12, 2009

“In Turkey, fertile ground for creationism”, *The Washington Post*, November 8, 2009

“Creationism, Without a Young Earth, Emerges in the Islamic World”, *The New York Times*, November 2, 2009

“Islam’s Darwin Problem”, *The Boston Globe*, October 25, 2009

“Evo Education: Panelists consider science in Islamic states”, *The McGill Daily*, April 6, 2009

“*God and Science: An inner conflict*”, *Live Science*, January 15, 2009

“Update on Islamic Creationism”, *National Center for Science Education*, December 15, 2008

“Move over creationists”, Andrew Sullivan’s *Daily Dish*, December 12, 2008

“Evolution arguments headed for Islamic world”, *Live Science*, December 11, 2008

“Life, the Universe, and Everything”, *The News (Pakistan)*, December 6, 2008

## **PUBLIC TALKS**

(2007-present)

“From the Large to the Very Large: Finding our place in the Universe”, a public talk at *Lahore Astronomical Society (LAST)*, Lahore, Pakistan, December 23, 2014

“Do Muslims accept theory of evolution?” A public talk in Indiana, Indianapolis, October 31, 2014

“Is there a clash between Islam and the theory of evolution”? Keynote talk for a panel on *Reconciling the theory of evolution with Muslim Tradition* at *Boston University*, organized by *American Islamic Congress (AIC)*, October 24, 2012

“When Evidence is Powerless”, a TEDx talk as part of *TEDx Pioneer Valley* at Amherst College, January 21, 2012

“How do Muslims across the world view modern science”? a public lecture as part of *Islamic Science Rediscovered Exhibit* at *The Tech Museum*, San Jose, CA., January 14, 2012

“Why is Islamic Creationism Spreading in Europe”? a public talk in Ghent, Belgium, November 19, 2011

Introduction to the film *Nostalgia for the Light* as part of *Science on Screen* series at Amherst Cinema, June 6, 2011

“What if we detect an ET signal? How will our society change as a result”? , Public talk at Science ka Adda (Cafe' Scientifique), *The Second Floor 2.0*, Karachi, Pakistan, March 18, 2011

“Science, Religion, and the Search for Our Origins”  
Public talk at *Fatih University*, Istanbul, Turkey, October 19, 2010

“Medieval Islamic Astronomy”  
Public talk at *Penn State*, Erie, PA, February 25, 2010

“Humans in the Cosmos: How 400 years of telescopes have the changed the way we look at ourselves”

Public talk at *Science ka Adda* (Cafe' Scientifique), *The Second Floor 2.0*, Karachi, Pakistan, December 22, 2009

*Humans in the Cosmos: How 400 years of telescopes have the changed the way we look at ourselves*, Public talk at Quaid-e-Azam University, Islamabad, Pakistan, December 18, 2009

*Charles Darwin: The Man Behind the Idea*  
Science Chautauqua Series, University of Connecticut, 7:00pm at Starbucks, 1244, Storrs Road. There was also a reading from Timberlake Wertenbaker's play, *After Darwin* by students from the UConn *Department of Dramatic Art*, September 18, 2009

*Science, religion and the search for our origins*  
Public talk at *Science ka Adda* (Café Scientifique), *The Second Floor*, Karachi, Pakistan, December 4, 2008

*Science, religion and the search for our origins*  
Public talk at *Quaid-e-Azam University*, Islamabad, Pakistan, December 2, 2008

*From Galileo to Darwin: The story of science & religion interactions*  
Public talk at Khwarzimid Science Society, Lahore, Pakistan, July 14, 2007

*Aliens and gods in science classrooms*

Public talk at Amherst Club, Massachusetts, April 20, 2007

*Coping with a broad belief spectrum: From astronomical pseudoscience to mainstream religion*

Invited public talk at Queens University, Canada, March 21, 2007