

# Muqem Khan

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Northwestern University in Qatar  
P.O. Box 34102  
Doha, Qatar  
<http://www.muqemkhan.com>  
[muqem@usa.net](mailto:muqem@usa.net)  
+974-5192353

## EMPLOYMENT

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2010 - present

**Associate Professor of Communication** - Northwestern University in Qatar.

- Courses offering in Communication: 2D and 3D animation and interaction design.

2005 - 2010

**Assistant Professor of Graphic & Interior Design** - Virginia Commonwealth University in Qatar.

- Courses offered in Graphics and Interior Design: Motion Graphics, Time-based Media, Exhibition and Environmental Design, Senior Portfolio for Graphic Design, Digital Imaging for Interior Design, Advanced Interior Graphics, Interior Design Studio, Topics in Animation, Sequential Design and 3D Computer Generated Animation
- Committees Served: Tasmeem Design Conference, Career Development, VCUQ Gallery, Curriculum, IT Advisory, Faculty Search and Faculty Research Grant.

2001-2005

**Assistant Professor of Digital Design** - School of Architecture & Design, American University of Sharjah, UAE.

- Courses offered: 3D Animation, Interactive Design, Senior & Junior Design Studios, Digital Media in Design, Design Professions, Internship Preparation, Interactive/Portfolio Design for Seniors and Special Topics: Film and Animation
- Committees Served: Curriculum, University/School IT and Election.
- Served as an Advisor, ACM SIGGRAPH and Student Cultural Clubs.

1998 - 2001

**Computer Graphics Artist** - Square USA, Honolulu, Hawaii

- Worked on Motion Picture - VFX: "Final Fantasy, The Spirit Within"
- Effect animation, rigid/soft body dynamics, deformations and environment design

1996 - 1998

**Computer Graphics Artist** - Dream Quest Images, The Walt Disney Company, Simi Valley, California.

- Worked on Motion Pictures - VFX: George of the Jungle, Flubber, Deep Rising and Armageddon.

1994 - 1996

**Research Associate** - The Ohio State University, Department of Chemistry, Columbus Ohio.

- Produced complex 2D/3D chemical and molecular structures with digital technologies.
- Developed interactive presentations and web page for the department.
- Developed techniques to enhance the impact of computer generated scientific visualization.

1993 - 1996

**Industrial Designer/Computer Coordinator** - Mays Consulting & Evaluation Services, Delaware, Ohio.

- Implemented design visualization and analysis for metal constructions.
- Video Documentation and visualization for interior and exterior construction.
- Simulated interior and architectural environment using Auto CAD, Electric Image and form Z.
- Designed and ran business presentations for construction related shows and exhibitions.
- Analysed presentation techniques for the company to sell its interior and architectural expertise.

1994

**Associate Market Researcher** - Fuji-Keizai USA., Inc. New York, NY.

- Conducted research analysis for the high-end visualization and animation systems.
- Analysed existing problems and challenges related to the computer systems user-interface.

## EDUCATION

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1994 - 1996

• **Master of Arts**, The Department of Industrial, Interior, and Visual Communication Design and The Advanced Computing Centre for Arts and Design, ACCAD, The Ohio State University, Columbus, Ohio. Interdisciplinary Design Studies, Thesis title: Design Thinking and Process for the Development of Computer Visualization.

1989 - 1993

• **Bachelor of Science**, Industrial/Interior Design, The Ohio State University, Columbus, Ohio

## CERTIFICATION

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2003

• UNESCO Regional Interactive Workshop, On-line Teaching and Learning, March, Sharjah, UAE.

1993

• Production of Large Scale USGS. Digital Line Graph Format Data, The Ohio State University Center for Mapping, Columbus, Ohio

## FILM CREDITS

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**Final Fantasy (The Spirits Within)** - July, 2001 (USA)

Muqem Khan, Visual Effects, Square USA, Honolulu, Hawaii  
• Visual effects, Rigid/Soft Body Dynamics and Deformations

**Armageddon** - December, 1998 (USA)

Muqem Khan, Visual Effects, Dream Quest Images, The Walt Disney Company, California  
• Sparks, fire and debris for the exploding shuttle  
• Effect animation for the debris and rocks  
• Gases and asteroids

**Deep Rising** - January, 1998 (USA)

Muqem Khan, Visual Effects, Dream Quest Images, The Walt Disney Company, California  
• Digital rain and tracking of digital cameras

**George of The Jungle** - July, 1997 (USA)

Muqem Khan, Visual Effects, Dream Quest Images, The Walt Disney Company, California  
• Visual effects and elephant's interaction with the ground

**Flubber** - November, 1997 (USA)

Muqem Khan, Visual Effects, Dream Quest Images, The Walt Disney Company, California  
• Visual effects for clouds and wisps  
• Compositing and digital elements for the 3D environment

## PUBLICATIONS

### Research Articles in Journals

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• Khan, Muqem. "Design Methodology for the Analysis and Preservation of Indigenous Perception", Third Text Asia, vol 1, (2009): 41-50.

• Khan, Muqem. "Design Intervention in the Context of Influenced Cognition", Journal of Design Behaviors, vol 1, (2007): 18-31.

## Conference Presentations

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- Muqem Khan (2009), "FUTURE TECHNOLOGISTS IN THE CONTEXT OF CONTEXTUAL STORYTELLING, presenter and moderator of a panel discussion, 7th Learning and Technology Symposium, June, Jeddah, Kingdom of Saudi Arabia.
- Muqem Khan (2009), "INTEGRATION THROUGH INVISIBLE INSTRUCTIONS: PEDAGOGY AND TECHNOLOGY FOR INTERIOR AND GRAPHIC DESIGN STUDENTS", virtual presentation and in the proceedings of the 3rd International Conference on Design Principles and Practices, February, Berlin, Germany.
- Muqem Khan (2008), "EXPLORATION OF CULTURAL PARADIGM: A WEB-BASED METHODOOLOGY", oral presentation and in the proceedings of the IASTED International Conference on Internet and Multimedia Systems and Application, March, Innsbruck, Austria.
- Muqem Khan (2008), "FOSTERING INTELLECTUAL TRANSACTIONS: A PEDAGOGICAL APPROACH IN DELIVERING TECHNOLOGY BASED INSTRUCTIONS FOR QATARI WOMEN", oral presentation and in the proceedings of the 6th Learning and Technology Symposium, April, Jeddah, Kingdom of Saudi Arabia.
- Muqem Khan (2008), "A ROBUST APPROACH TO VISUALIZE IMAGE MUTATION FOR ARTISTS AND DESIGNERS", in the proceedings of the 6th Annual Hawaii International Conference on Education, January, Honolulu, Hawaii, USA.
- Muqem Khan (2008), "CONTENT-BASED THREE DIMENSIONAL INSTRUCTIONS FOR ARTS AND DESIGN STUDENTS", in the proceedings of the 6th Annual Hawaii International Conference on Education, January, Honolulu, Hawaii, USA.
- Muqem Khan (2008), "THINKING PARADIGM FOR NEW AND COLLABORATIVE DESIGN ACTIVITIES" in the proceedings of the 6th Annual Hawaii International Conference on Arts and Humanities, January, Hawaii, USA.
- Muqem Khan (2007), "PRAGMATISED EMOTIONS: THE ART OF THE FUTURE DESIGNERS", oral presentation and in the proceedings of View Conference, November, Turin, Italy.
- Muqem Khan (2007), "VISUAL COGNITION FOR ONE OF THE ALTERNATIVE MEDICINAL SYSTEM" oral presentation and in the proceedings of the 5th Annual Hawaii International Conference on Arts and Humanities, January, Hawaii, USA.
- Muqem Khan (2007), "EDUCATION-BASED ISSUES IN DELIVERING DESIGN SOLUTIONS IN A COLLABORATIVE CROSS-DISCIPLINARY ENVIRONMENT", oral presentation and in the proceedings of 5th Annual Hawaii International Conference on Education, January, Honolulu, Hawaii.
- Muqem Khan (2006), "FLASHBACKS FROM FINAL FANTASY", oral presentation and in the proceedings of Virtuality Conference, October, Turin, Italy.
- Muqem Khan (2006), "ADDING DESIGN ELEMENTS IN INFORMATION-BASED MOTION GRAPHICS", oral presentation and in the proceedings of 4th Annual Hawaii International Conference on Arts and Humanities, January, Hawaii, USA.
- Muqem Khan (2006), "DESIGN THINKING AND PROCESS FOR THE THREE DIMENSIONAL TRANSFER OF KNOWLEDGE ", Symposiodesign, The Department of Fine Arts, Applied Science University, May, Jordan, Amman.
- Muqem Khan & Samia Rab (2005), "TOOLS FOR VISUALIZING DESIGNED INTERVENTIONS IN AN URBAN CONTEXT: INFORMATION GRAPHICS & MOTION GRAPHICS", in the proceedings of the Summit on Digital Tools for the Humanities, September, Virginia, USA.
- Muqem Khan & Ahmad Mukhtar (2004), "EDUCATION-ORIENTED VISUALIZATION MODEL FOR BUILDINGS CROSS VENTILATION", oral presentation and in the proceedings of the GRAPITE 2004, International Conference on Computer Graphics, June, Singapore.
- Muqem Khan (2003), "TEACHING AND LEARNING COMPUTER GRAPHICS AND ITS APPLICATION IN ENTERTAINMENT INDUSTRY", oral presentation and in the proceedings of Middle East Symposium on Simulation and Modeling, January, UAE.

- Muqem Khan (2002), "TEACHING METHODOLOGY FOR 3D ANIMATION" oral presentation and in the proceedings of Int. Conference on Computers in Education (ICCE), December, Auckland, New Zealand.
- Muqem Khan (2002), "BRINGING PRODUCTION WORK FLOW INTO CLASSROOM TEACHING" oral presentation and in the proceedings of the Sixth International Conference for Information and Visualization published by IEEE Computer Society at ISCIS XVII, July, London, England.

## INVITED LECTURES

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## WORKSHOPS

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- Workshop, "Interior and Exterior Graphics with SketchUp and V-Ray", 7th Learning and technology Symposium, Jeddah, Kingdom of Saudi Arabia, June, 2009.
  - Workshop, "Visualising Global Warming", Unite to combat climate change, World Environmental Day 2009, Doha, Qatar, June, 2009.
  - Presentation, "Thinking with Virtualization", Pecha Kucha Night Doha Vol. 2, February, Doha, Qatar.
  - Guest Speaker, "Digital Designer: Recent Trends and Future Challenges", ARENA Multimedia, Karachi Pakistan, January 2009.
  - Workshop, "Design Fundamentals for Interior Design", Virginia Commonwealth University in Qatar, Doha, Qatar, November 2008.
  - Workshop, "Digital Media for Design Foundation", Virginia Commonwealth University in Qatar, Doha, Qatar, October, 2008.
  - Guest Speaker, "Animation for Communication", Department of Visual Arts, Karachi University, Karachi, Pakistan, July, 2008.
  - Guest Speaker, "FINAL FANTASY" what were the weaknesses of the greatest digital fantasy?", The 6th Learning and technology Symposium, April, Jeddah, Kingdom of Saudi Arabia.
  - Workshop, "Jumpstart with Maya", the 6th Learning and technology Symposium, Jeddah, Kingdom of Saudi Arabia, April, 2008.
  - Guest Speaker, "Conceptual Design in Motion Pictures", Virginia Commonwealth University, Richmond, Virginia, September, 2007.
  - Workshop, "Resume for Graduates in Design", Virginia Commonwealth University in Qatar, Doha, Qatar, November, 2007.
  - Workshop, "Initiating Imagination", Virginia Commonwealth University in Qatar, Doha, Qatar, September, 2007.
  - Workshop, "Jumpstart With Maya" For VCUQ Alumni, Virginia Commonwealth University in Qatar, Doha, Qatar, September, 2006.
  - Workshop, "Digital Media in Design", Virginia Commonwealth University in Qatar, Doha, Qatar, November, 2005.
  - Guest Speaker, "Media Exhibition" Asian Management Institute, Karachi, Pakistan, July, 2005.
  - Guest Speaker, "Final Fantasy" Virginia Commonwealth University in Qatar, November, 2005.
  - Guest Speaker, "Launch of Maya 7", Dubai, UAE, October, 2005.
  - Guest Speaker, "Media Exhibition", Asian Management Institute, Karachi, Pakistan, July, 2005.
  - Guest Speaker, "CG and Game Development", M. A. Jinnah University, Karachi, Pakistan, July, 2004.

- Guest Speaker, "Computer Graphics", Iqra University, Karachi, Pakistan, July 2004.
- Guest Speaker, "Animation Products for Hollywood", LUMS, Lahore Pakistan, June 2004.
- Guest Speaker, "Communication and Technology", Shaheed Zulfikar Ali Bhutto Institute of Science and Technology ( SZABIST ), Dubai, UAE, June 2004.
- Guest Speaker, "Digital Animation", Department of Computer Science, Institute of Information Technology, COMSATS, M. A. Jinnah Campus, Lahore, Pakistan, December, 2003.
- Guest Speaker, (2002), E-Learning Symposium, May, Dubai, UAE.
- Guest Speaker, "Computer Graphics", The Department of Visual Studies, Karachi University, Karachi Pakistan, July, 2002.
- Guest Speaker, "Opportunities in Media", TIE, The Indus Entrepreneurs, Karachi, Pakistan. June, 2002.
- Guest Speaker, "Game Programming", Total IT, Karachi, Pakistan, April, 2002.
- Guest Speaker, "3D Animation and Graphics", ARENA Multimedia, Karachi Pakistan, Dec, 2001.

## **FILMS, EXHIBITS & INSTALLATIONS**

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- Immersive and mixed reality Installations, ACM SIGGRAPH Doha, Virginia Commonwealth University in Qatar, Doha, Qatar, Oct, 2009.
- Broadcast Animation and Motion Graphics for "Stars of Science, Al Nujoom ", an Arab reality show, Doha, Qatar, June, 2009.
- "Horoof-e-Moqatiat", Calligraphy Work, Virginia Commonwealth University in Qatar Faculty Exhibition, VCUQ Gallery, Doha, Qatar, Dec., 2007.
- "Muqem Khan by Muqem Khan", Animation, Virginia Commonwealth University in Qatar Faculty Exhibition, VCUQ Gallery, Doha, Qatar, Dec., 2007.
- "The Planet Earth", animation on the issue of global warming, Digi-arts, UNESCO Knowledge Portal, February, 2007.
- "The Planet Earth", animation on the issue of global warming, ArtBase gallery, an on-line archive of new media art, February, 2007.
- "Seven Spheres in Three Acts", Animation, Virginia Commonwealth University in Qatar Faculty Exhibition, Doha Qatar, Dec. 2005.
- "Personal and student's work selected", Launch of Maya 6, Dubai, UAE, June 2004.
- "Opus II" American University of Sharjah, School of Architecture & Design Faculty Exhibition, Shajah Art Museum, Sharjah, UAE, January, 2004.
- "Personal and student's work selected", GITEX 2003, the Middle East's IT show, Dubai, UAE, October 2003.

## **RELATED PROFESSIONAL ACTIVITIES**

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- Jury Member (2008), Painting Competition, The World Environmental Day with United Nations Environment Program, Environment Center, June, Doha, Qatar.
- External Jury Member (2008), Beacon House National University, May, Lahore, Pakistan.

- Member, Editorial Board (2007), Design Behaviours, an international design journal, The College of Design, Hanyang University and Design Research & Education Lab, Korea.
- Member (2007), Technical Committee, IASTED, The International Association of Science and Technology Development, Alberta, Canada.
- Jury Member (2007), Painting Competition Jury, The World Environmental Day with United Nations Environment Program, Environment Center, June, Doha, Qatar.
- VCU/VCUQ Annual Charrette, "Faculty Exchange Program", Virginia Commonwealth University, Richmond, Virginia, September, 2007.
- Reviewer (2007): Advances in Computer Science and Technology, December, Langkawi, Malaysia.
- Honorary Representative in Qatar, (2007), Foundation for Museum of Modern Art (FOMMA), November, Karachi, Pakistan.
- Participation (2006), Dubai Summer Surprise, DSS 2006, Dubai Men's College, April, Dubai, UAE.
- Reviewer (2005): Information Management in Modern Enterprise -IBIMA, July, Lisbon, Portugal.
- Reviewer (2004): the International Conference on Computer Graphics, Imaging and Visualization, July, Penang, Malaysia.

## CITED WORK

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- "Mixed Reality Games and Visualization", part of the symposium show, 7th Learning and technology Symposium, Jeddah, Kingdom of Saudi Arabia, June, 2009
- "Exploration of Cultural Paradigm: A Web-based Methodology", ACTAP Press, A Scientific and technical Publishing Company, Doha, Qatar, 2009.
- "Hollywood-famed digital designer, academician feted", Qatar Tribune, Doha, Qatar, Feb, 2009.
- "Moot on digital designing held", The Financial Times Daily, Karachi, Pakistan, January, 2009.
- "Walt Disneys Digital Artist, Muqeen Khan at Arena" Arena Multimedia, Karachi, Pakistan, January 2009.
- "Designers show a huge draw", Gulf Times, Doha, Qatar, February, 2009.
- "Digital age in Pakistan not a distant dream", The News, Karachi, Pakistan, February 2009.
- "Laborers misery appeal students", Qatar Tribune, Doha, Qatar, March, 2009.
- "Doha Volume #2 at Waqif Art Center", Pecha Kucha Night website, Doha, Qatar, February 2009.
- "CG is the medium", SLOGAN, an advertising magazine, Karachi, Pakistan, February 2009.
- "Dohas creative stars take centre stage at Pecha Kucha Night", Qatar Tribune, Doha, Qatar, February 2009.
- "Pakistans singer regales Dohaites with classical hits", Qatar Tribune, Doha, Qatar, March, 2009.
- "Pecha Kucha Night held at Souq Waqif", Qatar Tribune, Doha, Qatar, March 2009.
- "Pakistan's singer regales Dohaites with classical hits", Qatar Tribune, Doha, Qatar, January, 2009.
- "Qatari Students Network", Brand Design, Qatari Students Network Association, Doha, Qatar, Feb. 2008.
- "Tasmeem Animated Medallion", Tasmeem Design Conference, Doha, Qatar, March. 2008.
- Brand Design, "HakimJi", selected for "100s: Visual Ideas Series", Angela Patchell Books, USA. Feb. 2008.

- “VCUQ to display art by faculty” Gulf Times, Doha, Qatar, Dec. 2007.
- “Painting Competition to Mark Environmental Day”, Peninsula, Doha, Qatar, July 2007.
- “Muqem Khan” Hollywood.com, 2007.
- “Muqem Khan”, Internet Movie Database, IMBD, 2007.
- “Muqem Khan” Interview, FAST Institute of Computer Science, Karachi, Pakistan, August, 2006.
- “VCUQ Students to show motion graphics”, The Peninsula, Doha, Qatar, Nov. 2006.
- “VCUQ Student work”, Alsharq, Doha, Qatar, Nov. 2006.
- “VCUQ Student work”, AlRaya, Doha, Qatar, Nov. 2006.
- “VCUQ Graphic Design Professor attends Italy meet, TAXI Design Network, Nov. 2006.
- “VCUQ Graphic Design Professor Takes Part in Virtuality Conference”, Gulf Times, Doha, Qatar, Nov. 2006.
- TV Interview, Career On-line, Geo television channel, Pakistan, July, 2005.
- “The Realm of Computer Graphics in Pakistan” Article, daily Dawn, Karachi Pakistan, Dec., 2003.
- “Making films special with effects” Gulf News, Dubai, UAE, March, 2003.
- “A Digital Animation Artist Who Has Made a Name for Himself in Hollywood”, Saher, Karachi, Pakistan, September, 2002.
- “Muqem – A Hollywood Guru and a Digital Academician”, Peacemonger, KAR, Pakistan, August 2002.
- “Fantasy Man”, Newslite, Karachi Pakistan, August, 2002.
- “Meet Muqem Khan”, SHE, Pakistan, August 2002.
- “Hollywood’s top Special Effects Whiz Muqem Khan on the Future of Bollywood”, Eastern Eye, London, England, August, 2002.
- TV Interview, Indus Vision, Karachi, Pakistan, June, 2002.
- “An Interview with Muqem Khan”, monthly @internet, February, 2002.
- “The Sky Is the Limit”, Star Weekend, Karachi, Pakistan, January, 2002.
- “Man from Disney”, Apnkarachi Karachi, Pakistan December, 2001.
- “Very Special Effects”, Ohio State Alumni Magazine, Columbus, Ohio, November 1999.
- “A Pakistani Digital Artist in Hollywood”, Pakistan Link, Los Angeles, USA, January, 1999.
- “Art, Science and Lots of Fun”, Arab News, October, 1998.

## SOFTWARE

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- AutoDesk Maya, 3D Studio Max, V-Ray, SketchUp, Form.Z, RenderMan, Shake, AfterEffect, Dreamweaver, Flash, Director, Final Cut Pro, and other digital/interactive tools for artists and designers.
- Experience with AutoDesk Maya Embedded Language (MEL), ARToolKit, and Apple xCode

## GRANTS, HONORS & AWARDS

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- "Web-Based Methodology for Cultural Paradigm" Virginia Commonwealth University Faculty Research Grant, 2006.
- "Cross Disciplinary Research Activities in Design" Virginia Commonwealth University Faculty Research Grant, 2005.
- "Interactive Display" American University Faculty Research Grant, 2002.
- Design Work, accepted for the Juried Exhibition, Department of Industrial, Interior and Visual Communication Design, The Ohio State University, Columbus Ohio, 1994.
- University Systems Recognition Award, for the design of Ohio State Interactive Touch Screen Display System, The Ohio State University, Columbus Ohio, 1993.
- Community of Leaders, Taylor Tower Honors Living and learning Center, The Ohio State University, Columbus Ohio, 1993.
- Recognition of Assistance to Persons with Disabilities, Office for Disability Services, The Ohio State University, Columbus Ohio, 1993.
- Free House Academic Scholarship, The Ohio State University, Columbus Ohio, 1993.
- The Ohio State University Presidential Leadership Citation Award for Extra-curricular Activities on Campus, The Ohio State University, Columbus Ohio, 1993.
- Recognition and Appreciation for Professionalism, Office of Residence and Dining Halls, The Ohio State University, Columbus Ohio, 1992.
- Certificate of Recognition for Academic Achievement, Ohio University, Athens, Ohio, 1990.
- Recipient of National Dean's List, Ohio University, Athens Ohio, 1990.
- Canada World Youth Exchange Program (CWY) , Islamabad, Pakistan, 1987.
- Finalist, International Youth Year Souvenir for Fine Arts Category, Karachi, Pakistan, 1985.
- Painting selected for the Red Cross World Poster Competition, Geneva, Switzerland, 1983.
- First Prize, Inter-School Painting Competition, Karachi, Pakistan, 1983.

## MEMBERSHIPS

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- AUGI, Autodesk User Group International
  - ACM SIGGRAPH, Association for Computing Machinery, Special Interest Group in Computer Graphics.
- Initiator and creator of ACM SIGGRAPH Doha Chapter

## INTERESTS

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Arabic and Persian calligraphy, cycling, Indian classical music and Tabla

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References will be provided upon request