

Cover Letter (Dr. Walid (Oualid) Ali)

November 2008

Bsc, M.Sc, PhD



Department of Management Information Systems and Operations
College of Business Administration
University of Sharjah
UAE



Business address	Home address
Dr. Oualid (Walid) Ben Ali The University of Sharjah College of Business Administration P.O.Box: 27272, Sharjah, UAE	Dr. Oualid (Walid) Ben Ali R10 Apartment Al-Zahrawi Housing Unit The University of Sharjah P.O.Box: 27272, Sharjah, UAE
Other details	
Cell/Mobile: 050- 1081823 (from inside the UAE) and 00 971 50 1081823 (from outside UAE)	
Fax: 06 505 0513 (from inside the UAE) and 00 971 65050513 (from outside UAE)	
Email: OAli@Sharjah.ac.ae , Walid.Ali.1@ulaval.ca or Walid.Ali@ift.ulaval.ca or oualid.b.ali.@hyms.ac.uk or ali.walid@gmail.com	
Skype contact: walid_ali_canada	
Personal websites:	
▪ Link of the university of Sharjah: Link	
▪ Personal website: http://walidali.drivehq.com	
▪ PhD. thesis's website: http://w3.ift.ulaval.ca/~waali1/Mall_MAGS/Home.htm	
▪ Computer simulation portal website: http://w3.ift.ulaval.ca/~waali1/Simulation_Portal/index.html	

Dear **Mrs./Mr.**,

RE: Vacant position in your University/Department/Institute.

I read with interest vacancy from the **Internet**, and I wish to apply for the position. Enclosed please find my Curriculum Vitae (CV) listing my experiences in teaching, research, and achievements.

My general research:

My general research areas belong to both categories:

- (1) *Simulation software engineering, Design, Implementation and Validation of Simulation Software, Artificial Intelligence (AI), MultiAgent Systems (MAS), Modelling and Simulation (MS), Computer Simulation (CS), Multi-Agent Based Simulation (MABS), Agent Based Simulation, MultiAgent GeoSimulation (MAGS), Spatial Simulation, Social Simulation, Databases, Data warehousing, OLAP (On Line Analytical Processing)/SOLAP (Spatial On Line Analytical Processing), GIS (Geographic Information Systems), Geomatics, Spatial analysis, Social behaviors, Consumption behavior, Shopping behavior in a mall, etc.*
- (2) *3D visualization, 3D simulation, 3D graphics, Virtual world, Simulation and visualization in 3D, 3D modeling, etc.*
- (3) *Scientific visualization, Surface and volume rendering, etc.*

My Master research (CANADA):

My Master research works focuses on web technologies. It aims to develop an indexing and research engine based on a health/medical domain ontology.

My PhD research (CANADA):

My PhD research focuses more on **2D and 3D multiagent-based simulation of human behaviors** (individuals or crowds) in geographic or spatial environments (close or open (urban)), OLAP, and SOLAP. In my PhD thesis research, I proposed a generic method which can be followed to develop applications that simulate intelligent behaviors (especially human behaviors) in virtual geographic environments. I illustrated that method by developing a 2D-3D multi-agent based geosimulation of human shopping behavior in a mall. I also proposed a new technique to better analyze spatial data generated from such simulation. This technique combines multiagent geosimulation with OLAP and SOLAP analysis techniques.

After my PhD studies, I worked as an assistant researcher at Laval University, Geomatics Research Center doing research in the domain of MultiScale MultiAgent GeoSimulation of complex and spatial behaviors in spatial environments (the MUSCA_MAGS Project) under the supervision of **Prof. Bernard Moulin**. I also did some research related on the simulation of human behaviour inside a virtual museum (on the Internet).

My PostDoctoral research (England/UNITED KINGDOM):

In July 2006, I won one of the most prestigious post-doctoral scholarships in Europe for two years. This scholarship is called **MARIE-CURIE Actions** (<http://cordis.europa.eu/mariecurie-actions/>) with the European Virtual Anthropology Network (**EVAN Training Network**) (<http://www.evan.at/>). This scholarship is for two years (2006-2008). During these two years, I'm working in different places and departments: (1) The SimVis Simulation and Visualization Centre (**SimVis**) (in the computer science department, Hull University, Hull City, UK), (2) The Hull Immersive Virtual Environment (**HIVE**) (in the computer science department, Hull University, Hull City, UK), and (3) The Hull-York Medical School (**HYMS**) (in the university of Hull and the university of York, Hull City-York City, UK)

My main task is to design and develop innovative 3D simulation and visualization-based software tools in the fields of geometric morphometrics (GMM), Archaeology, Anthropology, Biology, etc. These tools include advanced 3D visualization capabilities, sophisticated statistical and analysis algorithms, advanced 3D data acquisition methods, etc.

This project is supervised by **Prof. Paul O'Higgins** (from HYMS, University of York) and Prof. **Rogers Philips** (from HYMS and SimVis/HIVE, Department of computer science, University of Hull).

Besides my extensive software engineering and teaching experiences as listed in my CV, I have rich research working experiences. I keep a good record of publications. I attended several conferences/workshops/symposiums and universities and labs. Also, I am active in professional activities: I reviewed for ASim and ABS Workshops, and for the Israel Science Foundation (ISF). Although my expertise is in computer science and software engineering (simulation application, 3D visualization and graphics), I have a good expertise in other domains such as social sciences, consumer behavior, shopping behavior, social behavior, marketing, geometric morphometrics (GMM), biology, anthropology, etc. In addition, I am very willing to pick up new area related to computer, information systems, or others. With my solid academic background, especially in modeling and programming, I believe that I can contribute well in many research areas such as social simulation, information systems, etc.

The duties and activities that I'm able to fulfill:

* **Pedagogic:** Including:

- teaching/lecturing, tutorial and seminar work;
- setting, invigilation and marking of examinations and other forms of assessment;
- supervision of undergraduate projects;
- etc.

* **Curriculum development:** Including:

- planning, development and evaluation of courses and course materials;
- etc.

* **Staff development activities:** Including:

- participation in internal/external activities and/or professional experience;

- participation in staff performance review and subject monitoring procedures;
- etc.

* **Administration:** Covering:

- the administration and management of education and training programmes which include responsibilities relating to publicity, public relations, marketing, recruitment and admissions of students;
- serving an internal/external committees or other bodies;
- etc.

* **Student support and pastoral care:** Including:

- as appropriate to the mission of the university to which I belong with particular focus on student achievement and retention;
- etc.

* **Research and consultancy:** Covering:

- opportunities to work with senior colleagues in research and publication carried out either with the university to which I belong, or externally;
- opportunities to work with senior colleagues on consultancy work carried out either with the university to which I belong, or externally;
- etc.

Finally, I would appreciate the opportunity to discuss my application in person. Please let me know by emails if you need further information from me.

Sincerely yours,
Walid Ali

PS: Three or more Referees (Profs) are indicated in my CV (last section). **I appreciate that you contact the referees when you shortlist me for an interview.**