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**SECTION 3 – HIGHLY QUALIFIED PERSONNEL (HQP) TRAINING**

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## SECTION 3 – HIGHLY QUALIFIED PERSONNEL (HQP) TRAINING

### 3.1. OVERVIEW & HIGHLIGHTS

In my research program and group, I have seven categories of Highly Qualified Personnel (HQP):

- (1) Research Associates (R-Asc) / Assistants (R-Ast);
- (2) Postdoctoral Fellows (PDF);
- (3) PhD Students (PhD);
- (4) MSc Students (MSc);
- (5) Visiting Researchers (VR);
- (6) Technical Staff (Tec-Stf); and
- (7) Administrative Staff (Adm-Stf).

My HQP (R-Asc/R-Ast, PDF, PhD, MSc, VR, and Tec-Stf) conduct research in Interactive Visual Computing (IVC) – i.e., interactive computer graphics, visualization & visual analytics, and human-data & computer interaction – for Research Themes RT-(1, 2, 3, 4, 5), and in applied IVC to the disciplines of Geoscience and Petroleum Engineering (GPE).

The next sections provide more information about each HQP, including

- Full names, HQP category, year completed or expected to complete (in parenthesis)
- For graduate students, their thesis title, department, and institution.
- Discipline Categories: Interactive Visual Computing or Geoscience & Petroleum Engineering (GPE) / primary Research Theme(s): RT-(1, 2, 3, 4, 5) – e.g., “IVC / RT-2” means the HQP’s research is in the disciplines of “Interactive Visual Computing” with a primary Research Theme #2 “Sketch-based Interfaces & Modeling”.
- Supervisor / Co-Supervisor
- List of publications
- Present position (w/ web link) for HQP who completed their degrees and research work.

### 3.2. RESEARCH ASSOCIATES & ASSISTANTS

1 in progress + 2 completed

Name	Title	Yr.	RT
Silva, Julio Daniel	R-Asc	(2018)	RT-4
Somanath, Sowmya	R-Ast	2013	RT-5
Sultanum, Nicole	R-Ast	2012	RT-5

#### 1. Silva, Julio Daniel – Sr. Rsrch Associate (In Progress)

- IVC / RT-4 (primary); also working on RT-2
- Supv: Costa Sousa
- 4 Publications:
  - Hamdi *et al.* '15c
  - Rocha *et al.* '17(a, b)
  - Zhang *et al.* '17(a, b)

#### 2. Somanath, Sowmya – Rsrch Assistant, 2012 - 2013

- IVC / RT-5 (primary); also worked on RT-3
- Supv: Costa Sousa / Sharlin
- 2 Publications:
  - Somanath *et al.* '13(a, b)

#### 3. Sultanum, Nicole – Rsrch Assistant, 2011 - 2012

- IVC / RT-5 (primary); also worked on RT-3
- Supv: Costa Sousa / Sharlin
- 2 Publications:
  - Sultanum *et al.* '12, '13

### 3.3. POSTDOCTORAL FELLOWS

3 in progress + 6 completed

Name	Yr.	RT
de Carvalho, Felipe Moura	(2018)	RT-2
Hajizadeh, Yasin	2013	RT-4
Hamdi, Hamidreza	(2018)	RT-4
Machado Silva, Clarissa Coda	(2018)	RT-3
Silva, Julio Daniel	2017	RT-4
Singh, Kulwinder	2011	RT-3
Streit, Lisa	2006	RT-4
Vital Brazil, Emilio	2016	RT-2
Wahanik, Helmut	2016	RT-4

1. **de Carvalho, Felipe Moura – PDF, (In Progress)**
  - IVC / RT-2 (primary); also working on RT-3
  - Supv: Costa Sousa
  - 3 Publications:
    - de Carvalho *et al.* '16
    - Zhang *et al.* '17(a, b)
2. **Hajizadeh, Yasin – PDF, 2011 - 2013**
  - GPE / RT-4 (primary); also RT-3
  - Supv: Costa Sousa
  - 7 Publications:
    - Hajizadeh *et al.* ['12, '13]
    - Amorim E *et al.* '12b
    - Amorim R *et al.* '12b
    - Hamdi *et al.* ['14, '15(a, d)]
  - Pres. Pos.: Sr. Data Sci. @ Schlumberger (USA)
3. **Hamdi, Hamidreza – PDF, (In Progress)**
  - GPE / RT-4 (primary); also RT-3
  - Supv: Costa Sousa
  - 17 Publications:
    - Hamdi *et al.* ['13, '14, '15(a, b, c, d), '17(a, b, c)]
    - Hamdi & Costa Sousa '16
    - Cabral R Mota *et al.* '16(a, c)
    - Karami Moghadam *et al.* '12
    - Khani *et al.* '17
    - Sahaf *et al.* ['16, '17b]
    - Somanath *et al.* '15a

4. **Machado Silva, Clarissa Coda – PDF, (In Progress)**
  - IVC / RT-3 (primary); also RT-5
  - Supv: Costa Sousa
  - 2 Publications: Zhang *et al.* '17(a, b)
5. **Silva, Julio Daniel – PDF, 2016 - 2017**
  - IVC / RT-4 (primary); also RT-(2, 3)
  - Supv: Costa Sousa
  - 1 Publication: Hamdi *et al.* '15c
  - Pres. Pos.: Sr. R-Asc @ U. of Calgary (CAD)
6. **Singh, Kulwinder – PDF, 2010 - 2011**
  - IVC / RT-4
  - Supv: Gavrilova / Costa Sousa
  - Pres. Pos.: Rsrch Faculty @U. of S. Florida (USA)
7. **Streit, Lisa – PDF, 2005 - 2006**
  - IVC / RT-4 (primary); also RT-(2, 5)
  - Supv: Prusinkiewicz / Costa Sousa
  - 3 Publications:
    - Streit *et al.* ['05, '06]
    - Lapidés *et al.* '06
  - Pres. Pos.: Soft. Eng. @ Electronic Arts (EA) (CAD)
8. **Vital Brazil, Emilio – PDF, 2012 - 2015**
  - IVC / RT-4 (primary); also RT-(1, 2, 3, 5)
  - Supv: Costa Sousa
  - 19 Publications:
    - Vital Brazil *et al.* ['14, '15]
    - Amorim E *et al.* ['12a, '14, '15]
    - Amorim R *et al.* ['12(a, b, c), '14]
    - Cevolani *et al.* '13; Costa Sousa *et al.* '14
    - de Carvalho *et al.* '16; Jackson *et al.* '15
    - Martins Filho *et al.* '12
    - Mostafa *et al.* ['12, '13(a, b)]
    - Somanath *et al.* '12; Sultanum *et al.* '13
  - Pres. Pos.: Rsrch Scientist @ IBM Research (BRA)
9. **Wahanik, Helmut – PDF, 2015 - 2016**
  - IVC / RT-4
  - Supv: Costa Sousa
  - Pres. Pos.: Soft. Eng. @ Waterloo Hydrogeologic (CAD)

### 3.4. GRADUATE STUDENTS

#### PhD Students (PhD)

8 in progress + 4 completed

Name	Yr.	RT
Amorim, Elisa	2016	RT-3
Amorim, Ronan	2017	RT-2
Hasan, Mahmudul	(2018)	RT-4
Jepp, Pauline	2007	RT-1
Karami Moghadam, Ali	(2017)	RT-4
Khani, Hojjat	(2018)	RT-4
Li, (Nico) Hao	(2018)	RT-4
Mostafa, Ahmed E	(2017)	RT-5
Rocha, Allan	(2018)	RT-3
Sahaf, Zahra	(2018)	RT-3
Somanath, Sowmya	(2017)	RT-5
Vital Brazil, Emilio	2011	RT-2

Note: PhD Mostafa and Somanath (in progress) also completed their MSc degrees in my group (table on the right)

#### MSc Students (MSc, thesis based)

1 in progress + 22 completed

Name	Yr.	RT
Anastacio, Fabricio	2007	RT-2
Brosz, John	2005	RT-4
Brunn, Meru	2006	RT-1
Burns, Christopher	2013	RT-5
Cabral R Mota, Roberta	2017	RT-5
Cartwright, Stephen	(2018)	RT-3
Chen, (Jason) Hung-Li	2007	RT-4
Cherlin, Joseph	2006	RT-2
Foster, Kevin	2005	RT-1
Lapides, Paul	2012	RT-5
Martins Filho, Zamir	2013	RT-3
Medeiros, Jonatas	2008	RT-1
Mostafa, Ahmed E	2012	RT-3
Nittala, Aditya S	2015	RT-5
Olsen, Luke	2007	RT-4
Proença, Joao	2007	RT-1
Rivotti, Vera	2007	RT-1
Roberts, Mike	2012	RT-4
Seyed, (Teddy) Alemayehu	2013	RT-5
Somanath, Sowmya	2012	RT-5
Sultanum, Nicole	2011	RT-5
Taerum, Torin	2007	RT-1
Xin, Min	2011	RT-1

#### Notes:

- All MSc students listed were/are in an MSc thesis-based stream. In this stream, students complete program requirements — i.e., define the research problem, carry out the thesis research, publish journal and/or conference manuscripts, and write and defend the thesis—within a two year (full-time) or 4 years (part-time) designated timeframe.
- In total, 17 graduate students are/were under my supervision and 16 under my co-supervision
- In total, eight graduate students are in progress (concluding in 2017/2018) and 25 completed their degrees.
- Present positions of graduate students who completed their degrees: 13 companies (6 in Canada, 4 in the USA, and 3 in Europe) and five universities (3 in Canada, 1 in the USA, and 1 in Germany).

More information about each of the graduate students is provided next.

1.	<p><b>Amorim, Elisa – PhD, 2016</b></p> <p><b>Multidimensional Projection Visualization: Control-points Selection and Inverse Projection Exploration</b>  <i>Department of Computer Science</i>  <i>University of Calgary (CAD)</i></p>	<p><b>IVC / RT-3</b></p> <ul style="list-style-type: none"> <li>➤ Supv: Costa Sousa / Samavati</li> <li>➤ 5 Publications: <ul style="list-style-type: none"> <li>• <b>Amorim E et al.</b> ['12(a, b), '14, '15]</li> <li>• Hajizadeh et al. '12</li> </ul> </li> <li>➤ Internships during PhD: <ul style="list-style-type: none"> <li>• <i>Microsoft</i> (USA)</li> </ul> </li> <li>➤ Pres. Pos.: Soft. Eng. @ <i>Microsoft</i> (USA)</li> </ul>
2.	<p><b>Amorim, Ronan – PhD, 2017</b></p> <p><b>3D Geological Modeling from Concept Sketches and Annotations</b>  <i>Department of Computer Science</i>  <i>University of Calgary (CAD)</i></p>	<p><b>IVC / RT-2</b></p> <ul style="list-style-type: none"> <li>➤ Supv: Costa Sousa / Samavati</li> <li>➤ 9 Publications: <ul style="list-style-type: none"> <li>• <b>Amorim R et al.</b> ['12(a, b, c), '14]</li> <li>• Jackson et al. '15</li> <li>• Mostafa et al. '12</li> <li>• Paiva et al. '11</li> <li>• Vital Brazil et al. ['14, '15]</li> </ul> </li> <li>➤ Pres. Pos.: Soft. Eng. @ <i>Microsoft</i> (USA)</li> </ul>
3.	<p><b>Anastacio, Fabricio – MSc, 2007</b></p> <p><b>Hybrid Sketch-based and Procedural Modeling of Plants</b>  <i>Department of Computer Science</i>  <i>University of Calgary (CAD)</i></p>	<p><b>IVC / RT-2</b></p> <ul style="list-style-type: none"> <li>➤ Supv: Costa Sousa / Prusinkiewicz</li> <li>➤ 3 Publications: <ul style="list-style-type: none"> <li>• <b>Anastacio et al.</b> ['06, '08, '09]</li> </ul> </li> <li>➤ Pres. Pos.: Soft. Eng. @ <i>Computer Modelling Group (CMG) Ltd.</i> (CAD)</li> </ul>
4.	<p><b>Brosz, John – MSc, 2005</b></p> <p><b>Terrain Modeling by Example</b>  <i>Department of Computer Science</i>  <i>University of Calgary (CAD)</i></p>	<p><b>IVC / RT-4</b></p> <ul style="list-style-type: none"> <li>➤ Supv: Samavati / Costa Sousa</li> <li>➤ 4 Publications: <ul style="list-style-type: none"> <li>• <b>Brosz et al.</b> ['04, '06, '07(a, b)]</li> </ul> </li> <li>➤ Pres. Pos.: Co-ord. Rsrch. Data &amp; Vis. @ <i>Visualization Rsrch. Services, U. of Calgary</i> (CAD)</li> </ul>
5.	<p><b>Brunn, Meru – MSc, 2006</b></p> <p><b>Curve Synthesis by Example</b>  <i>Department of Computer Science</i>  <i>University of Calgary (CAD)</i></p>	<p><b>IVC / RT-1</b></p> <ul style="list-style-type: none"> <li>➤ Supv: Costa Sousa / Samavati</li> <li>➤ 2 Publications: <ul style="list-style-type: none"> <li>• <b>Brosz et al.</b> '07</li> <li>• Costa Sousa et al. '04</li> </ul> </li> <li>➤ Pres. Pos.: Soft. Eng. @ <i>NGRAIN</i> (CAD)</li> </ul>
6.	<p><b>Burns, Christopher – MSc, 2013</b></p> <p><b>Developing a Usable API for Multi-Surface Systems</b>  <i>Department of Computer Science</i>  <i>University of Calgary (CAD)</i></p>	<p><b>IVC / RT-5</b></p> <ul style="list-style-type: none"> <li>➤ Supv: Maurer / Costa Sousa</li> <li>➤ 6 Publications: <ul style="list-style-type: none"> <li>• <b>Burns et al.</b> ['12(a, b), '13]</li> <li>• Seyed et al. ['12, '13(b, c)]</li> </ul> </li> <li>➤ Pres. Pos.: Soft. Eng. @ <i>Nest Labs</i> (USA)</li> </ul>

7.	<b>Cabral Ramos Mota, Roberta – MSc, 2017</b>  <b>Exploring Immersive Virtual Environments for Well Placement Optimization in Reservoir Models</b> <i>Department of Computer Science</i> <i>University of Calgary (CAD)</i>	<b>IVC / RT-5</b>  ➤ Supv: Costa Sousa / Sharlin ➤ 4 Publications: <ul style="list-style-type: none"> <li>• Cabral R Mota <i>et al.</i> '16(a, b, c)</li> <li>• Sahaf <i>et al.</i> '17a</li> </ul> ➤ Pres. Pos.: Research Associate @ <i>Reservoir Simul. Group, U. of Calgary (CAD)</i>
8.	<b>Cartwright, Steven – MSc, part-time (2018)</b>  <b>Visual and Interactive Security of Scientific Data</b> <i>Department of Computer Science</i> <i>University of Calgary (CAD)</i>	<b>IVC / RT-5</b>  ➤ Supv: Sharlin / Costa Sousa ➤ 4 Publications: <ul style="list-style-type: none"> <li>• Cabral R Mota <i>et al.</i> '16a</li> <li>• Li <i>et al.</i> ['14b, '15b]; Nittala <i>et al.</i> '15</li> </ul> ➤ Part-time Pos. during MSc: <ul style="list-style-type: none"> <li>• Visualization Support Technical Manager @  <i>Reservoir Simul. Group, U. of Calgary (CAD)</i></li> </ul>
9.	<b>Chen, (Jason) Hung-Li – MSc, 2007</b>  <b>Interactive Volume Manipulation</b> <i>Department of Computer Science</i> <i>University of Calgary (CAD)</i>	<b>IVC / RT-4</b>  ➤ Supv: Samavati / Costa Sousa ➤ 2 Publications: <ul style="list-style-type: none"> <li>• Chen <i>et al.</i> ['06, '08]</li> </ul> ➤ Patent: US20090322748 ➤ Pres. Pos.: Soft. Eng. @ <i>Circle Cardiovascular Imaging (CAD)</i>
10.	<b>Cherlin, Joseph – MSc, 2006</b>  <b>Sketch-Based Modeling of Parametric Surfaces using Few Strokes</b> <i>Department of Computer Science</i> <i>University of Calgary (CAD)</i>	<b>IVC / RT-2</b>  ➤ Supv: Costa Sousa / Samavati ➤ 2 Publications: <ul style="list-style-type: none"> <li>• Cherlin <i>et al.</i> '05</li> <li>• Severn <i>et al.</i> '11 (book chapter)</li> </ul> ➤ Pres. Pos.: Soft. Eng. @ <i>ArenaNet (USA)</i>
11.	<b>Foster, Kevin – MSc, 2005</b>  <b>Precise Ink Illustrations of Polygonal Models</b> <i>Department of Computer Science</i> <i>University of Calgary (CAD)</i>	<b>IVC / RT-1</b>  ➤ Supv: Costa Sousa / Wyvill ➤ 5 Publications: <ul style="list-style-type: none"> <li>• Foster <i>et al.</i> ['04, '05, '07]</li> <li>• Costa Sousa <i>et al.</i> '03</li> <li>• Wyvill <i>et al.</i> '05</li> </ul> ➤ Pres. Pos.: Soft. Eng. @ <i>Allay Inc. (CAD)</i>
12.	<b>Hasan, Mahmudul – PhD candidate, (2018)</b>  <b>Balanced Multiresolution for Symmetric &amp; Antisymmetric Filters</b> <i>Department of Computer Science</i> <i>University of Calgary (CAD)</i>	<b>IVC / RT-4</b>  ➤ Supv: Samavati / Costa Sousa ➤ 1 Publication: <ul style="list-style-type: none"> <li>• Hasan <i>et al.</i> '15</li> </ul>

13.	<b>Jepp, Pauline – PhD, 2007</b>  <b>Using Multi-Agent Systems for Illustrative Rendering of Implicit Surfaces</b> <i>Department of Computer Science</i> <i>University of Calgary (CAD)</i>	<b>IVC / RT-1</b>  ➤ Supv: Wyvill / Costa Sousa ➤ 5 Publications: <ul style="list-style-type: none"> <li>• <b>Jepp et al.</b> ['06, '08, '09]</li> <li>• Foster et al. '05</li> <li>• Wyvill et al. '05</li> </ul> ➤ Pres. Pos.: Soft. Eng. @ <i>Tritech Intl.</i> (GBR)
14.	<b>Karami Moghadam, Ali – PhD candidate, (2017)</b>  <b>Global Sensitivity and Visual Analysis of Reservoir Models with Large Number of Parameters</b> <i>Department of Chemical &amp; Petroleum Engineering</i> <i>University of Calgary (CAD)</i>	<b>GPE / RT-3</b>  ➤ Supv: Chen / Costa Sousa ➤ 3 Publications: <ul style="list-style-type: none"> <li>• <b>Karami Moghadam et al.</b> ['12, 16(a, b)]</li> </ul> ➤ Internships during PhD: <ul style="list-style-type: none"> <li>• <i>Computer Modelling Group (CMG) Ltd.</i> (CAD)</li> </ul>
15.	<b>Khani, Hojjat – PhD candidate, (2018)</b>  <b>Geologically Consistent History Matching using Multipoint Geostatistics</b> <i>Department of Chemical &amp; Petroleum Engineering</i> <i>University of Calgary (CAD)</i>	<b>GPE / RT-4</b>  ➤ Supv: Chen / Costa Sousa ➤ 1 Publication: <ul style="list-style-type: none"> <li>• <b>Khani et al.</b> '17</li> </ul>
16.	<b>Lapides, Paul – MSc, 2012</b>  <b>Designing Video Games with Social, Physical, and Authorship Gameplay</b> <i>Department of Computer Science</i> <i>University of Calgary (CAD)</i>	<b>IVC / RT-5</b>  ➤ Supv: Sharlin / Costa Sousa ➤ 5 Publications: <ul style="list-style-type: none"> <li>• <b>Lapides et al.</b> ['06, '08, '12]</li> <li>• Harris et al. '11</li> <li>• Sultanum et al. '12</li> </ul> ➤ Pres. Pos.: PhD cand. Comp. Sci. @ <i>U. of Calgary</i> (CAD)
17.	<b>Li, (Nico) Hao – PhD candidate, (2018)</b>  <b>Tangible Topography: Using Interactive Physical Models to Improve Terrain Perception</b> <i>Department of Computer Science</i> <i>University of Calgary (CAD)</i>	<b>IVC / RT-5</b>  ➤ Supv: Costa Sousa / Sharlin ➤ 4 Publications: <ul style="list-style-type: none"> <li>• <b>Li et al.</b> ['14(a, b), '15(a, b)]</li> </ul>
18.	<b>Martins Filho, Zamir – MSc, 2013</b>  <b>Tackling the Occlusion Problem in 3D Grids</b> <i>Department of Computer Science</i> <i>University of Calgary (CAD)</i>	<b>IVC / RT-3</b>  ➤ Supv: Costa Sousa / Vital Brazil (PDF, mentor) ➤ 2 Publications: <ul style="list-style-type: none"> <li>• <b>Martins Filho et al.</b> ['12, '15]</li> </ul> ➤ Pres. Pos.: Soft. Eng. @ <i>Cisco Systems</i> (CAD)

19.	<b>Medeiros, Jonatas – MSc, 2008</b>	<b>IVC / RT-1</b>
	<b>Illustrative 3D Contouring</b> <i>Institute of Informatics</i> <i>UFRGS - Federal U. of Rio Grande do Sul (BRA)</i>	<ul style="list-style-type: none"> <li>➤ Supv: Freitas / Costa Sousa</li> <li>➤ 2 Publications: <ul style="list-style-type: none"> <li>• <b>Medeiros et al.</b> '09</li> <li>• Somanath et al. '12</li> </ul> </li> <li>➤ Pres. Pos.: PhD stdt. @ <i>UFRGS (BRA)</i></li> </ul>
20. (a)	<b>Mostafa, Ahmed E – PhD candidate, (2017)</b>	<b>IVC / RT-5</b>
	<b>Making Time a Space: Re-exploring Time for the Design of 3D Spatial Interactive Systems</b> <i>Department of Computer Science</i> <i>University of Calgary (CAD)</i>	<ul style="list-style-type: none"> <li>➤ Supv: Sharlin / Costa Sousa</li> <li>➤ 3 Publications: <ul style="list-style-type: none"> <li>• <b>Mostafa et al.</b> ['15, '16, '17]</li> </ul> </li> <li>➤ Internships during PhD: <ul style="list-style-type: none"> <li>• <i>Microsoft Research (USA)</i></li> </ul> </li> </ul>
20. (b)	<b>Mostafa, Ahmed E – MSc, 2012</b>	<b>IVC / RT-3</b>
	<b>PetroVis &amp; FractVis: Interactive Visual Exploration of High-dimensional Oil and Gas Data</b> <i>Department of Computer Science</i> <i>University of Calgary (CAD)</i>	<ul style="list-style-type: none"> <li>➤ Supv: Costa Sousa / Sharlin</li> <li>➤ 4 Publications: <ul style="list-style-type: none"> <li>• <b>Mostafa et al.</b> ['12, '13(a, b)]</li> <li>• Cevolani et al. '13</li> </ul> </li> <li>➤ Internships during MSc: <ul style="list-style-type: none"> <li>• <i>Disney Research (USA)</i></li> </ul> </li> <li>➤ Pres. Pos.: PhD cand. Comp. Sci. @ <i>U. of Calgary (CAD)</i></li> </ul>
21.	<b>Nittala, Aditya S – MSc, 2015</b>	<b>IVC / RT-5</b>
	<b>SHVIL, PLANWELL, &amp; FLYING FRUSTUM: Spatial Interaction with 3D Physical Maps</b> <i>Department of Computer Science</i> <i>University of Calgary (CAD)</i>	<ul style="list-style-type: none"> <li>➤ Supv: Costa Sousa / Sharlin</li> <li>➤ 3 Publications: <ul style="list-style-type: none"> <li>• <b>Nittala et al.</b> '15</li> <li>• Li et al. ['14a, '15b]</li> </ul> </li> <li>➤ Pres. Pos.: PhD stdt., Comp. Sci. @ <i>Max-Planck Inst. &amp; Saarland U. (DEU)</i></li> </ul>
22.	<b>Olsen, Luke – MSc, 2007</b>	<b>IVC / RT-4</b>
	<b>Constraining Wavelets for Multiresolution</b> <i>Department of Computer Science</i> <i>University of Calgary (CAD)</i>	<ul style="list-style-type: none"> <li>➤ Supv: Samavati / Costa Sousa</li> <li>➤ 4 Publications: <ul style="list-style-type: none"> <li>• <b>Olsen et al.</b> ['05, '07, '08, '09]</li> </ul> </li> <li>➤ Pres. Pos.: Soft. Eng. @ <i>Microsoft (USA)</i></li> </ul>
23.	<b>Proença, Joao – MSc, 2007</b>	<b>IVC / RT-1</b>
	<b>Non-Photorealistic Rendering of Implicit Surfaces</b> <i>School of Computer Science and Engineering</i> <i>Technical University of Lisbon (PRT)</i>	<ul style="list-style-type: none"> <li>➤ Supv: Jorge / Costa Sousa</li> <li>➤ 3 Publications: <ul style="list-style-type: none"> <li>• <b>Proença et al.</b> ['07, '08]</li> <li>• Rivotti et al. '07</li> </ul> </li> <li>➤ Pres. Pos.: Soft. Eng. @ <i>OutSystems (PRT)</i></li> </ul>



24.	<b>Rivotti, Vera</b> – MSc, 2007  <b>Non-Photorealistic Rendering</b> <i>School of Computer Science and Engineering Technical University of Lisbon (PRT)</i>	<b>IVC / RT-1</b>  ➤ Supv: Jorge / Costa Sousa ➤ 1 Publication: • <b>Rivotti et al.</b> '07 ➤ Pres. Pos.: Partner/CCO @ BeeINSIGHT (PRT)
25.	<b>Roberts, Mike</b> – MSc, 2012  <b>Level Set Volume Segmentation using Programmable Graphics Hardware</b> <i>Department of Computer Science University of Calgary (CAD)</i>	<b>IVC / RT-4</b>  ➤ Supv: Costa Sousa / Mitchell (Medicine) ➤ 2 Publications: • <b>Roberts et al.</b> '10 • Bruckner et al. '10 ➤ Pres. Pos.: PhD cand. Comp. Sci. @ Stanford U. (USA)
26.	<b>Rocha, Allan</b> – PhD candidate, (2018)  <b>Multiscale and Multifield Illustrative Visualization for Reservoir Model Exploration</b> <i>Department of Computer Science University of Calgary (CAD)</i>	<b>IVC / RT-3</b>  ➤ Supv: Costa Sousa / Alim ➤ 3 Publications: • <b>Rocha et al.</b> '17(a, b) • Somanath et al. '15a
27.	<b>Sahaf, Zahra</b> – PhD candidate, (2018)  <b>Visual Analytics for Multi-Attribute Ranking of Earth Models for Reservoir Simulation Studies</b> <i>Department of Computer Science University of Calgary (CAD)</i>	<b>IVC / RT-3</b>  ➤ Supv: Costa Sousa / Maurer ➤ 3 Publications: • <b>Sahaf et al.</b> ['16, '17(a, b)] ➤ Internships during PhD: • <i>Computer Modelling Group (CMG) Ltd.</i> (CAD)
28.	<b>Seyed, (Teddy) Alemayehu</b> – MSc, 2013  <b>Examining User Experience in Multi-Display Environments</b> <i>Department of Computer Science University of Calgary (CAD)</i>	<b>IVC / RT-5</b>  ➤ Supv: Maurer / Costa Sousa ➤ 7 Publications: • <b>Seyed et al.</b> ['12, '13(a, b, c)] • Burns et al. ['12(a, b), '13] ➤ Pres. Pos.: • PhD cand., Comp. Sci. @ U. of Calgary (CAD) • Co-Founder: <i>Slate Scale</i> (CAD)
29. (a)	<b>Somanath, Sowmya</b> – PhD candidate, (2017)  <b>Designing Maker Culture Learning: Reinventing STEAM Education in Communities with Limited Technology Literacy</b> <i>Department of Computer Science University of Calgary (CAD)</i>	<b>IVC / RT-5</b>  ➤ Supv: Sharlin / Costa Sousa ➤ 4 Publications: • <b>Somanath et al.</b> ['15(a, b), '16, '17] ➤ Future Pos.: Assist. Prof. Fac. of Design @ OCAD U. (CAD)

29. (b)	<p><b>Somanath, Sowmya – MSc, 2012</b></p> <p><b>Exploring Tabletops as an Interaction Medium in the Context of Reservoir Engineering</b>  <i>Department of Computer Science</i>  <i>University of Calgary (CAD)</i></p>	<p><b>IVC / RT-3</b></p> <ul style="list-style-type: none"> <li>➤ Supv: Costa Sousa / Sharlin</li> <li>➤ 6 Publications: <ul style="list-style-type: none"> <li>• <b>Somanath et al.</b> ['12, '13(a, b), '14]</li> <li>• Sultanum et al. ['11, '12]</li> </ul> </li> <li>➤ RA in my group (2012 – 2013)</li> <li>➤ Pres. Pos.: PhD cand. Comp. Sci. @ <i>U. of Calgary (CAD)</i></li> </ul>
30.	<p><b>Sultanum, Nicole – MSc, 2011</b></p> <p><b>Exploring Novel Interfaces for 3D Visualization of Reservoir Simulation Post-Processing Data</b>  <i>Department of Computer Science</i>  <i>University of Calgary (CAD)</i></p>	<p><b>IVC / RT-5</b></p> <ul style="list-style-type: none"> <li>➤ Supv: Costa Sousa / Sharlin</li> <li>➤ 8 Publications: <ul style="list-style-type: none"> <li>• <b>Sultanum et al.</b> ['10, '11, '12, '13]</li> <li>• Harris et al. '11</li> <li>• Karami Moghadam et al. '12</li> <li>• Lapedes et al. '12</li> <li>• Somanath et al. '12</li> </ul> </li> <li>➤ RA in my group (2011 – 2012)</li> <li>➤ Pres. Pos.: PhD stdt. Comp. Sci. @ <i>U. of Toronto (CAD)</i></li> </ul>
31.	<p><b>Taerum, Torin – MSc, 2007</b></p> <p><b>Real-Time Super Resolution Contextual Close-up of Clinical Volumetric Data</b>  <i>Department of Computer Science</i>  <i>University of Calgary (CAD)</i></p>	<p><b>IVC / RT-3</b></p> <ul style="list-style-type: none"> <li>➤ Supv: Costa Sousa / Samavati</li> <li>➤ 2 Publications: <ul style="list-style-type: none"> <li>• <b>Taerum et al.</b> '06</li> <li>• Costa Sousa et al. '05c</li> </ul> </li> <li>➤ Patent: US7893940 B2</li> <li>➤ Pres. Pos.: Dir. of Eng. @ <i>Arterys, Inc. (USA)</i></li> </ul>
32.	<p><b>Vital Brazil, Emilio – PhD, 2011</b></p> <p><b>Sketching for Modeling</b>  <i>Computer Graphics (VISGRAF) Research Unit</i>  <i>IMPA – National Institute of Pure &amp; Applied Math (BRA)</i></p>	<p><b>IVC / RT-2</b></p> <ul style="list-style-type: none"> <li>➤ Supv: de Figueiredo / Costa Sousa</li> <li>➤ 5 Publications: <ul style="list-style-type: none"> <li>• <b>Vital Brazil et al.</b> ['10(a, b), '11]</li> <li>• Paiva et al. '09</li> <li>• Pereira et al. '11</li> </ul> </li> <li>➤ PDF in my group (2012 – 2015)</li> <li>➤ Pres. Pos.: Rsrch. Sci. @ <i>IBM Research (BRA)</i></li> </ul>
33.	<p><b>Xin, Min – MSc, 2011</b></p> <p><b>3D Sketching and Collaborative Design with Napkin Sketch</b>  <i>Department of Computer Science</i>  <i>University of Calgary (CAD)</i></p>	<p><b>IVC / RT-5</b></p> <ul style="list-style-type: none"> <li>➤ Supv: Sharlin / Costa Sousa</li> <li>➤ 3 Publications: <ul style="list-style-type: none"> <li>• <b>Xin et al.</b> ['06, '08, '09]</li> </ul> </li> <li>➤ Pres. Pos.: Program Manager @ <i>SMART Technologies (CAD)</i></li> </ul>

### 3.5. VISITING RESEARCHERS

4 completed

Name	Yr.	RT
Cevolani, Juliana	2013	RT-3
Jorge, Joaquim	2005	RT-2
Macedo, Ives	2011	RT-4
Romeiro, Rafael	2015	RT-1

#### 1. Cevolani, Juliana – VR, 2012 - 2013

- GPE / RT-3
- BEng. Std. Petroleum Eng. @ UFES (BRA)
- “Science Without Borders” scholarship (Brazilian Govt.) to spend one year in my group as VR working in RT-3 for petrophysics.
- Supv: Costa de Oliveira (UFES) / Costa Sousa
- Collab.: Mostafa (MSc) / Vital Brazil (PDF)
- 1 Publication: **Cevolani et al.** '13
- Pres. Pos.: MEng. std. @ UFES (Energy) (BRA)

#### 2. Jorge, Joaquim – VR, 2004 - 2005

- IVC / RT-2 (primary); also worked on RT-1
- Professor, Computer Science and Engineering, Technical U. Lisbon (PRT); Head, *Visualization and Multimodal Interfaces Group*
- Sabbatical Leave, Host: Costa Sousa
- 4 Publications:
  - Cherlin *et al.* '05
  - Foster *et al.* '05
  - Olsen *et al.* '05
  - Schmidt *et al.* '05a

#### 3. Macedo, Ives – VR, 2010 - 2011

- IVC / RT-4 (primary); also worked on RT-(1, 2)
- PhD std, IMPA (BRA)
- Supv: Costa Sousa
- 4 Publications:
  - Pereira *et al.* '11
  - Vital Brazil *et al.* ['10(a, b), '11]
- Pres. Pos.: Applied Scientist @ *Amazon Vancouver* (CAD)

#### 4. Romeiro, Rafael – VR, 2014 - 2015

- IVC / RT-4 (primary); also worked on RT-1
- MSc std., Computer Science, UFRJ (BRA)
- Supv: Costa Sousa
- Mentors: Silva (PDF) / Vital Brazil (PDF)
- Pres. Pos.: PhD std. @ UFRJ (BRA)

**3.6. TECHNICAL & ADMINISTRATIVE STAFF**

4 completed

Name	Title	Yr.	RT
<b>DeBavelaere, Charles</b>	Tec-Stf / Soft. Eng.	2013	RT-3
<b>Gallant, Maria</b>	Adm-Stf / Proj Coord.	2016	-
<b>McInnis, Jamie</b>	Adm-Stf / Proj Mngr.	2014	-
<b>Rebolo Medici, Patricia</b>	Adm-Stf / Admin Assistant	2015	-

- |  |  |
|--|--|
| <p><b>1. DeBavelaere, Charles – Tec-Stf, 2004 - 2005</b></p> <ul style="list-style-type: none"> <li>➤ IVC / RT-3</li> <li>➤ Soft. Eng. Working on 3D Visualization APIs</li> <li>➤ Supv: Costa Sousa</li> <li>➤ Pres. Pos.: Soft. Eng. @ <i>Electronic Arts (EA) (CAD)</i></li> </ul> <p><b>2. Gallant, Maria – Adm-Stf, 2015 - 2016</b></p> <ul style="list-style-type: none"> <li>➤ Project Coordinator (IRC prgm)</li> <li>➤ Supv: Costa Sousa</li> <li>➤ Pres. Pos.: Operations Coordinator @ <i>Snyder Inst. for Chronic Diseases – Cumming School of Medicine - U. of Calgary (CAD)</i></li> </ul> | <p><b>3. McInnis, Jamie – Adm-Stf, 2012 - 2014</b></p> <ul style="list-style-type: none"> <li>➤ Project Manager</li> <li>➤ Supv: Chen (Chem. &amp; Pet. Eng.) / Costa Sousa</li> <li>➤ Pres. Pos.: Prj. Mngr @ <i>Reservoir Simul. Group, U. of Calgary (CAD)</i></li> </ul> <p><b>4. Rebolo Medici, Patricia – Adm-Stf, 2014 - 2015</b></p> <ul style="list-style-type: none"> <li>➤ Administrative Assistant</li> <li>➤ Supv: Costa Sousa</li> </ul> |
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