

Mounia Ziat (ENG., M.S., PH.D.) – Associate Professor

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Education

10. 02 – 11. 06 **Compiègne University of Technology, Compiègne, France**
Doctor of Philosophy, Cognitive Science
Dissertation: Learning and use of a zoom function implemented in a mobile tactile interface. Experiments and ergonomics.
11. 01 - 09. 02 **Compiègne University of Technology, Compiègne, France**
Master of Cognitive Science
Dissertation: Acuity of a Sensory substitution device.
09. 98 - 06. 01 **École des Beaux-Arts, Algiers, Algeria**
Graphics designer
09. 91 - 06. 97 **University of Sciences and Technology of Ferhat Abass, Setif, Algeria**
Engineer, Electronics
Option: "Instrumentation"

Academic Positions

08. 14 – to date **Northern Michigan University, Associate Professor**
Psychology department
04. 14 – to date **Northern Michigan University, Director of the Neuroscience Program**
Psychology and Biology departments
08. 11 – 08. 14 **Northern Michigan University, Assistant Professor**
Psychology department
03. 09 - 07. 11 **Wilfrid Laurier University, Post-Doctoral fellow**
Laurier Centre for Cognitive Neuroscience
07. 07 - 02. 09 **McGill University, Post-Doctoral fellow**
Centre for Intelligent Machines
10. 02 – 07. 07 **Compiègne University of Technology, Lecturer**
Technology and Human Sciences department

Visiting Positions

07. 15 – 08. 15 **University of California, Los Angeles, Visiting Researcher**
Dr. Ladan Shams, Psychology department
05. 15 – 06. 15 **Columbia University, Visiting Researcher**
Dr. Qi Wang, Biomedical Engineering department
11. 07 – 12. 07 **Max Planck Institute of Cybernetics, Tubingen, Germany, Visiting Postdoc**
Dr. Marc Ernst, Perception and Action Lab.

Grants

05. 13 - 12. 13 **Cross-Fertilization Student Exchange Program, IEEE Technical Committee on Haptics (TCH) (\$2.000) – co-PI**

“Physiological responses of emotions expressed through the haptic channel”

04. 12 - 04. 14 *Faculty Research Grant Program, Northern Michigan University (\$7,000) - PI
“Behavioral and electrophysiological responses associated with the processing of touch in a driving simulator environment”*

Honors and Awards

07. 07 - 08. 08 *McGill University, Enactive Post-Doctoral Fellowship*

10. 02 - 09. 05 *Compiègne University of Technology, French Research Ministry: fellowship for graduate study*

10. 02 - 09. 05 *Compiègne University of Technology, Scholarship from CIES (France) to support teaching*

Publications

Undergraduate and graduate students' names are underlined

Peer-reviewed Articles

1. **Ziat, M.**, Savord, A., Frissen, I. (2015). The effect of Visual, Haptic, and Auditory Signals Perceived from Rumble Strips during Inclement Weather. IEEE Worldhaptics 2015, Evanston, IL, June 2015, 351-355 (**Acceptance rate: 43%**)
2. **Ziat, M.**, Bensmaia, S. (2015). Neuroprosthetics, International Encyclopedia of Social and Behavioral Sciences, eds. James Wright, 714-721
3. **Ziat, M.**, Lecolinet, E., Gapenne, O., Mouret, G., & Lenay, C. (2014). Perceptual Strategies under Constrained Movements on a Zoomable Haptic Mobile Device. In Haptics: Neuroscience, Devices, Modeling, and Applications, Springer Berlin Heidelberg, 224-231.
4. **Ziat, M.**, Rolison, T., Shirtz, A., Wilbern, D., and Balcer C. A. (2014) Enhancing Virtual Immersion through Tactile Feedback, ACM UIST'14 Adjunct, Honolulu, Hawaii, October 2014, 65-66. (**Acceptance rate: 30%**)
5. **Ziat, M.**, Fridstrom, J., Kilpela, K., Fancher, J., and Clark, J.J. (2014) InGrid: Interactive Grid Table, ACM CHI 2014 Extended Abstracts, Toronto, ON, April-May 2014, 559-562. (**Acceptance rate: 38%**)
6. **Ziat, M.**, Brown, C., Smith, E., DeWolfe, C., Hayward, V. (2014) Ebbinghaus Illusion in the Tactile Modality, *IEEE Haptic Symposium 2014*, Houston, TX, February 2014, 581 - 585.
7. **Ziat, M.**, Konieczky, C., Kakas, B. (2014) Throwing of a Ceramic Cylindrical Vessel: How Height is Affected by Sensory Deprivation, *IEEE Haptic Symposium 2014*, Houston, TX, February 2014, 529-530.
8. **Ziat, M.**, Frissen, I., Champion, G., Hayward, V., & Guastavino, C. (2013). Plucked String Stiffness Affects Loudness Perception. In Haptic and Audio Interaction Design. Springer Berlin Heidelberg. pp. 79-88.
9. **Ziat, M.**, Fancher, J., Kilpela, K., Fridstrom, J., Clark, J. J. (2013) InGrid: Rethinking the Embodied Space, *ACM CHI'2013 workshop on blended interaction*, 2013, 4 p. (**Acceptance rate: 59%**)

10. **Ziat, M.** and Saoud, W. (2013) The Progress Bar as a Time Metaphor of Continuity and Discontinuity, *ACM CHI'2013 workshop on perspectives of time*, 2013, 4 p. (**Acceptance rate: 50%**)
11. Frissen, I., **Ziat, M.**, Campion, G., Hayward, V., & Guastavino, C. (2012). The effects of voluntary movements on auditory–haptic and haptic–haptic temporal order judgments. *Acta psychologica*, 141(2), 140-148.
12. **Ziat, M.**, Au, C., Abolhassani, A. H., & Clark, J. J. (2012). Enhancing visuospatial map learning through action on cellphones. *ACM Transactions on Applied Perception (TAP)*, 9(1), 501-515.
13. **Ziat, M.**, Hayward, V., Chapman, C. E., Ernst, M. O., & Lenay, C. (2010). Tactile suppression of displacement. *Experimental brain research*, 206(3), 299-310.
14. **Ziat, M.**, Gapenne, O., Stewart, J., & Lenay, C. (2007). Haptic recognition of shapes at different scales: A comparison of two methods of interaction. *Interacting with Computers*, 19(1), 121-132.
15. **Ziat, M.**, Lenay, C., Gapenne, O., Stewart, J., Ammar, A. A., & Aubert, D. (2007). Perceptive supplementation for an access to graphical interfaces. In *Universal Access in Human Computer Interaction*. Springer Berlin Heidelberg, pp. 841-850.
16. **Ziat, M.** (2007) Haptic Zoom, Zoomable experience, Zoomable interfaces. In A. Luciani and C. Cadoz (eds.): *Enaction and Enactive Interface: a Handbook of Terms, Enactive Systems Books*, Grenoble. ISBN 978-2-9530856-0-0
17. **Ziat, M.**, Gapenne, O., Lenay, C., and Stewart, J. (2007) Zooming experience in the haptic modality. *3rd International Conference on Enactive Interfaces (ENACTIVE'07)*, November 23rd- 21st, 2007, Grenoble, France, 305-308.
18. **Ziat, M.**, Gapenne, O., Stewart, J., Lenay, C. (2007) Manipulation d'un zoom haptique continu via un dispositif de substitution sensorielle, *19th French-speaking conference on Human Computer Interaction (ACM IHM'07)*, Paris, November 17-12th, 2007, 63-70.
19. **Ziat, M.**, Gapenne, O., Stewart, J., Lenay, C and Bausse, J. (2007) Design of a Haptic Zoom: levels and steps. *Proceedings of IEEE Worldhaptics'07*, Tsukuba, Japan, March 22-24, 2007, 102-108.
20. **Ziat, M.**, Gapenne O., Lenay, C. and Stewart, J. (2007) Perception limits of a sensory substitution device by using an acuity test. *Proceedings of Human Machine iNteraction Conference (Human'07)*, Timimoun, Algeria, March 12-14, 2007, 201-206.
21. **Ziat, M.**, Gapenne, O., Lenay, C., Lecolinet, E., Mouret, G., & Stewart, J. (2006). Espace de perception et seuils de confort pour un zoom haptique en 2D. *Revue d'Interaction Homme-Machine* Vol, 7(1), 29-54.
22. **Ziat, M.**, Gapenne, O., Lenay, C. and Stewart, J. (2006) Zoomable user interfaces: Ecological and Enactive. *2nd International Conference on Enactive Interfaces (ENACTIVE'06)*, Montpellier, France, November 20-21, 2006, 239-240.
23. **Ziat, M.**, Gapenne, O., Stewart, J. and Lenay, C. (2006) Checking the two-third power law for shapes explored via a sensory substitution device. *2nd International Conference on Enactive Interfaces (ENACTIVE'06)*, Montpellier, France, November 20-21, 2006, 95-96.
24. **Ziat, M.**, Gapenne, O., Rouze, M.-O. and Delwarde, A. (2006) Recognition of different scales by using a haptic sensory substitution device. In *the proceedings of Eurohaptics'2006*, Paris, France, July 3-6, 2006, 513-518.

25. **Ziat, M.**, Gapenne, O., Lenay, C. and Stewart, J. (2005) Perception in numerical and corporeal spaces in a 2D haptic virtual world. *In the proceedings of the 2nd International Conference on Enactive Interfaces (ENACTIVE'05)*, Genova, Italy, November 17-18, 2005, 10 p.
26. **Ziat, M.**, Gapenne, O., Delwarde, A., and Rouze, M.-O. (2005) Haptic Differentiation between Different Scales, *Proceedings in Designing Pleasurable Products and Interfaces (DPPI'05)*, Eindhoven, the Netherlands, October 24-28, 2005, 480-481.
27. **Ziat, M.**, Gapenne, O., Stewart, J., Lenay, C. (2005) A comparison of two methods of scaling on form perception via a haptic interface. *Seventh International Conference on Multimodal Interfaces (ACM ICMI'05)*, Trento, Italy, October 04-06, 2005, 236-243.
28. **Ziat, M.**, Gapenne, O. (2005) Etude préliminaire visant la détermination de seuils de confort pour un zoom haptique. *17th French-speaking conference on Humain Computer Interaction (ACM IHM'05)*, Toulouse, France, 27-30 septembre, 2005, 3-10. **Nominated for Best Paper Award**
29. **Ziat, M.** (2004) Scaling form or sensor: A question for the design of a pseudo-haptic zoom dedicated to PDA, *Designing Interactive Systems (ACM DIS'04)*, Doctoral Consortium, Cambridge, Massachusetts, USA, August 1-4, 2004, 5 p.
30. **Ziat, M.**, Gapenne, O., Lenay, C., Stewart, J. (2004) Acuité perceptive via une interface pseudo-haptique. *16th French-speaking conference on Humain Computer Interaction (ACM IHM'04)*, Namur, Belgique, 30 août 30 - 3 septembre, 2004, 263-266.

Abstracts and Demos

1. **Ziat, M.**, Konieczky, C., Park, MK, Kakas, B., Rosenbaum, D. (2015) Potters Make Shorter Clay Pots at the Wheel When Their Vision, Touch, or Hearing Is Reduced, Psychonomic Society Meeting, Chicago, IL, November 2015. **(Talk)**
2. Schramski, K., Newell, F., **Ziat, M.** (2015) Good Gestalt: Orderliness Perception through Touch, Psychonomic Society Meeting, Chicago, IL, November 2015. **(Poster)**
3. Crowel, S., Messer, Z., Aday, J., Bratonia, C., **Ziat, M.** (2015) Negatively Connoted Music Increases Brain Activity in the Prefrontal Cortex: A NIRS Study, Society for Neuroscience, Chicago, IL, October 2015. **(poster)**
4. Shirtz, A., Morrow, K., Savord, A., **Ziat, M.** (2015) Virtual Mirror Box for Lower Limbs using EMG, IEEE Worldhaptics 2015, Evanston, IL, June 2015. **(Demo)**
5. Wilbern, D., Savord, A., Morrow, K., **Ziat, M.** (2015) Visual-Haptic Hallucinations, IEEE Worldhaptics 2015, Evanston, IL, June 2015. **(Demo)**
6. Haara, M., Stark, V., Johnson, D., Horn, J. **Ziat, M.** (2015) Virtual Exosuit with Haptic Feedback, IEEE Worldhaptics 2015, Evanston, IL, June 2015. **(Demo)**
7. Tsalamlal, M. Y., Rizer, W., Martin, J.-C., Ammi, M., **Ziat, M.** (2015) Evented Related Potentials Using an Air Jet Tactile Stimulation, Cognitive Neuroscience Society Meeting, San Francisco, CA, March 2015. **(Poster)**
8. Rizer, W., Wilbern, D., Prychitko, S., Savord, A., **Ziat, M.** (2015) Haptic Hallucinations: Evidence from Event-Related Potentials, Cognitive Neuroscience Society Meeting, San Francisco, CA, March 2015. **(Poster)**

9. Balcer, C. A., Schirtz, A., Rolison, T., Ziat, M. (2014) Visual Cues Effects on Temperature Perception. Psychonomic Society Meeting, Long Beach, California, November 2014. **(Talk)**
10. Savord, A., Wisuri, E., Pless, P., Ziat, M. (2014) Kinesthetic Memory Adaptation in Flute Players, BK25 Milestones in Music and Cognition, Montreal, Canada, July 7-8th 2014. **(Poster)**
11. Ziat, M., Smith, E., Calvetti, C., Hayward, V. (2014) Ebbinghaus Illusion in Touch. The UEA Perception and Action Workshop, Norwich, UK, June 9th, 2014. **(Poster)**
12. Smith, E., Calvetti, C., Ziat, M., Hayward, V. (2014) How is the Ebbinghaus Illusion affected by touch? Upper Peninsula Interdisciplinary Student Research Conference (UPISR), Houghton, MI, April 22nd, 2014. **(Poster)**
13. Ziat, M., Konieczky, C., Kakas, B. (2014) Throwing of a Ceramic Cylindrical Vessel: How Height is Affected by Sensory Deprivation Upper Peninsula Interdisciplinary Student Research Conference (UPISR), Houghton, MI, April 22nd, 2014. **(Poster)**
14. Savord, A., Wisuri, E., Pless, P., Ziat, M. (2014) Kinesthetic Memory Adaptation in Flute Players, Upper Peninsula Interdisciplinary Student Research Conference (UPISR), Houghton, MI, April 22nd, 2014. **(Talk)**
15. Fancher, J., Kilpela, K., Fridstom, J., Ziat, M. (2014) InGrid: Interactive Grid Table, Upper Peninsula Interdisciplinary Student Research Conference (UPISR), Houghton, MI, April 22nd, 2014. **(Talk)**
16. Balcer, C. A., Rolison, T., Schirtz, A., Ziat, M. (2014) How Visual Cues Affect Tactile Temperature Perception, Upper Peninsula Interdisciplinary Student Research Conference (UPISR), Houghton, MI, April 22nd, 2014. **(Talk)**
17. Wagner, S., Ziat, M. (2014) Night Landing Task Using a Haptic Device, Upper Peninsula Interdisciplinary Student Research Conference (UPISR), Houghton, MI, April 22nd, 2014. **(Talk)**
18. Balcer, C. A., Schirtz, A., Rolison, T., Ziat, M. (2014) Is Seeing Warm, Feeling Warm?, *IEEE Haptics Symposium 2014*, Houston, TX, February 2014. **(Demo)**
19. Brewster, P., Hock, C., Flint, L., Lanthier, A., Ziat, M., Dow, D., Hartman, M. (2014) BCI - Tactile Cursor Task, *IEEE Haptics Symposium 2014*, Houston, TX, February 2014. **(Demo)**
20. Rolison, T., Ziat, M. (2014) Do You Feel the Music?, *IEEE Haptics Symposium 2014*, Houston, TX, February 2014. **(Demo)**
21. Ziat, M., Konieczny, C., Kakas, B. (2013) Multimodal Integration During the Shaping of a Round Ceramic Cylinder, *Psychonomic Society Meeting 2013*, p.231, Toronto, ON. **(Poster)**
22. Fancher, J., Smith, E., Ziat, M. (2013) Haptic Hallucination Sleeve, *IEEE WorldHaptics 2013*, Daejeon, Korea, April 2013. **(Demo). Nominated for Best Demo Award (top 3/ 80 demos).**
23. Ziat, M., Hayward, V., Pless P., Sicotte C. (2012) Tactile Suppression of Displacement Device, *IEEE Haptics Symposium 2012*, Vancouver, Canada, March 2012. **(Demo)**
24. Ziat, M., Hayward, V., Servos, P., and Ernst, M. (2011) Visuomotor Coordination under two types of reflections, *Psychonomic Society 2011*, Seattle, WA. **(Poster)**
25. Servos, P., Ziat, M. (2011) Tactile Suppression of Displacement: Early evidence using ERP, *ISBN 2011*, Verona, Italy. **(Talk)**
26. Ziat, M., Servos, P., Hayward, V., Saoud, W. (2011) Tactile Suppression of Displacement: Evidence from Event-related Potentials, *CNS 2011*. **(Poster)**

27. Servos, P., Boyd, A., Planetta, J., **Ziat, M.** (2011) Somatosensory Maps in Time and Space, *Canada Research Chair*, Nov. 24th, 2010, Toronto. **(Poster)**
28. Frissen, I., **Ziat, M.**, Campion, G., Hayward, V., Guastavino, C. (2009) Auditory-tactile temporal order judgments during active exploration, *IMRF 2009*. **(Poster)**
29. **Ziat, M.**, Hayward, V., Chapman, C. E., Ernst, M., Lenay, C. (2008) Revisiting the fingertip-fovea analogy, *Perception 37 (EVP 2008 Abstract Supplement)*, 08 2008. **(Poster)**
30. **Ziat, M.**, Gapenne, O., Lenay, C., Stewart, J., and Aubert, D. (2008) Tactos: a sensory substitution device for an active perception, *IEEE Worldhaptics'07 supplement*, Tsukuba, Japan (March 22-24, 2007). **(Demo)**
31. **Ziat, M.**, Gapenne, O., Lenay, C. and Stewart, J. (2002) Prothèses Perceptives: Acuité dynamique et stratégies d'explorations, *Journée du Réseau de sciences cognitives d'Ile-de-France*, Collège de France, Paris, France, 18 octobre 2002, page 50. **(Poster)**
32. **Ziat, M.**, Gapenne, O., Lenay, C. and Stewart, J. (2001) Study of the dynamical acuity through a sensory substitution device in blindfolded subjects. *Movement, action and consciousness: toward a physiology of intentionality. A symposium in honor of Marc Jeannerod*, Institut for Cognitives Sciences, Lyon, France, 27-28 septembre, 2002. **(Poster)**

Workshops

1. Guger, C., Ziat, M. (2015) Current and future applications of non-invasive and invasive BCIs, g.TEC and Northern Michigan University, October 23rd, 2015.
2. **Ziat, M.**, Frisoli, A., van Erp, J. (2014) Non-Invasive BCI and Haptics, Eurohaptics 2014, Versailles, France, June, 2014
3. **Ziat, M.**, Frisoli, A., van Erp, J., Guger, C. (2014) Brain Computer Interfaces & Haptics, IEEE Haptics Symposium 2014, Houston, TX, February, 2014.
4. Rutkowski, T., Kapeller, C., Hori, G., **Ziat, M.**, Chang M., and Moru, H. (2013) Tactile and Bone-Conduction Based BCI Paradigms - State of the Art, Challenges and Potential New Applications, *The 5th International Brain-Computer Interface Meeting (BCI'13)*, Pacific Grove, California, June 3-7, 2013.
5. **Ziat, M.** and Lecuyer, A. (2013) Workshop on haptics and BCI (Brain-Computer Interface), Daejeon, *IEEE WorldHaptics 2013*, April 2013.

Thesis

1. **Ziat, M.** (2006) Learning and usage of a zoom function implemented in a mobile tactile interface, Ph.D Thesis, UTC, November 2006. **Nominated for Best Thesis of the Year (2006) and published by the PAF (Presses Academiques Francaises) in August 2013.** ISBN: 978-3841622198
2. **Ziat, M.** (2002) Dynamic Acuity of a Sensory substitution device, Master Thesis, UTC, September 2002.

In Progress

1. **Ziat, M.** Wagner, S., Frissen, I. Black Hole Illusion: Compensatory Haptic feedback to the Absence of Horizon Cues during Landing.

2. Savord, A., Wisuri, E., Pless, P., Frissen, I. Ziat, M. Adaptation of Kinesthetic Memory in Beginning and Well-Practiced Flute Players.
3. **Ziat, M., Saoud, W., Prychitko, S., Servos, P., Grondin., S.** Progress Bars and Throbbbers for Studying the Continuous and Discontinuous Nature of Time.
4. **Ziat, M., Servos, P., Hayward, V., Saoud, W.** Event-related Potentials: Evidence for Tactile Suppression of Displacement.
5. **Ziat, M., Hayward, V., Servos, P., Ernst, M.** Mental Rotations, Reflections and Visuo-motor Conflicts.

Talks

Invited Talks

- TBA, ACM CHI'16, San Jose, CA, May 2016
- *"Haptics and BCI", G.TEC and NMU workshop, October 23rd, 2015*
- *"Haptics", Ladan Shams' lab meeting, UCLA, July 22nd, 2015*
- *"Lighting up the brain with tactile inputs", Haptics for Neuroscience and Neuroimaging (HNN) Workshop, ICRA'15, Washington State Convention Center, May 26th, 2015.*
- *"The effect of Visual, Haptic, and Auditory Signals Perceived from Rumble Strips during Inclement Weather", NMU Scholarship Recognition Reception, Marquette, MI, April 16th, 2015.*
- *"Tactile Suppression of Displacement: Evidence from Events-Related Potentials", Workshop "New perspectives in sensorimotor integration: predictive sensory suppression & tactile perception during movement", University of Giessen, Germany, January 11th, 2015.*
- *"Illusions, embodied space, and multisensory integration", ISIR, Université Pierre et Marie Curie, Paris, France, 10th July 2014.*
- *"Introduction to EEG and BCIs", Workshop on Non-Invasive BCI and Haptics, Eurohaptics'14, Versailles, Paris, 27th June 2014.*
- *"Cross-Disciplinary between Computer Science and Psychology", NMU CS Seminar Series, Marquette, MI, 11th March 2014.*
- *"Illusions, embodied space, and multisensory integration", Université de Sherbrooke, Quebec, 20th January 2014.*
- *"Introduction to BCIs", Workshop on BCI and Haptics, Haptics Symposium'14, Houston, TX, 23rd February 2014.*
- *"Ebbinghaus Illusion in the Tactile Modality", TRG (Tactile Research Group), Psychonomic Society satellite meeting, Toronto, ON, November 14th, 2013.*
- *"Illusions, embodied space, and multisensory integration", Department of Cognitive and Learning Sciences, Michigan Tech, Houghton, MI, 14th October 2013.*
- *"Illusions, embodied space, and multisensory integration", Immersion, Montreal, QC, 8th July 2013.*
- *"Introduction to Haptics", Workshop on Haptics and BCI, BCI'13, Pacific Grove, CA, 6th June 2013.*
- *"Optimal Integration of Multimodal Information during Inclement Weather Driving", Cognitive Neuroscience Department, University of Bielefeld, Germany, 22nd May 2013.*
- *"InGrid: Interactive Grid Table", SIGCHI Paris, Paris, France, 25th April 2013.*
- *"Introduction to BCIs", Workshop on Haptics and BCI, WHC'13, Daejeon, Korea, 14th April 2013.*

- *"Human-Interaction Research Program"*, NMU CS Seminar Series, Marquette, MI, 2nd April 2013.
- *"Visuospatial Map Learning Through Action on Cell Phones"*, NMU Psychology Colloquia Series, Marquette, MI, November 9th, 2012
- *"Tactile Suppression of Displacement: Evidence of ERP"*, TRG 2011, Seattle, WA, November 3rd, 2011.
- *"Revisiting the fingertip-fovea analogy"*, Special Lecture, WLU, Waterloo, ON, Canada, May 5th, 2008.
- *"Revisiting the fingertip-fovea analogy"*, CIM Thursday Reparti-Perception Meetings, McGill University, Montreal, QC, Canada, May 1st, 2008.

Conference Presentations

- TBA, TRG (Tactile Research Group), Psychonomic Society satellite meeting, Chicago, IL, November 19th, 2015.
- *"Potters Make Shorter Clay Pots at the Wheel When Their Vision, Touch, or Hearing Is Reduced"*, Psychonomic Society Meeting, Chicago, IL, November 22nd, 2015.
- *"The effect of Visual, Haptic, and Auditory Signals Perceived from Rumble Strips during Inclement Weather"*, Worldhaptics'15, Evanston, IL, June 24th, 2015.
- *"Visual Cues Effects on Temperature Perception"*, Psychonomic Society Meeting, Long Beach, CA, November 22nd, 2014.
- *"Tactile Spatial Segregation"*, TRG (Tactile Research Group), Psychonomic Society satellite meeting, Long Beach, CA, November 20th, 2014.
- *"InGrid: Rethinking the Embodied Space"*, CHI'2013 Workshop, Paris, France, 28th April 2013
- *"The Progress Bar as a Time Metaphor of Continuity and Discontinuity"*, ACM CHI'2013 Workshop, Paris, France, 27th April 2013
- *"Plucked string stiffness affects loudness perception"*, Daejeon, Korea, HAID'2013, 19th April 2013
- *"Manipulation d'un zoom haptique continu via un dispositif de substitution sensorielle"*, 19th French-speaking conference on Human Computer Interaction (IHM'07), Paris, November 17-12th, 2007
- *"Design of a Haptic Zoom: levels and steps"*, Worldhaptics'07, Tsukuba, Japan, March 22-24, 2007
- *"Perception limits of a sensory substitution device by using an acuity test"*, Human Machine Interaction Conference (Human'07), Timimoun, Algeria, March 12-14, 2007
- *"Checking the two-third power law for shapes explored via a sensory substitution device"*, 2nd International Conference on Enactive Interfaces (ENACTIVE'06), Montpellier, France, November 20-21, 2006, 95-96
- *"Haptic Differentiation between Different Scales"*, DPPI'05, Oct. 2005, Eindhoven, the Netherlands
- *"Etude préliminaire visant la détermination de seuils de confort pour un zoom haptique"*, IHM'05, Sep. 2005, Toulouse, France
- *"Acuité perceptive via une interface pseudo-haptique"*, IHM'04, Sep. 2004, Namur, Belgium

- "Scaling form or sensor: A question for the design of a pseudo-haptic zoom dedicated to PDA", *DIS'04 (Doctoral Consortium)*, Aug. 2004, Cambridge, Massachusetts, USA

Teaching Experience

- 08. 11 – to date** **Northern Michigan University**
Assistant Professor
- PY211: Learning (Fall 11/12/14(web)/15(web), Winter 12/15(web), and Summer (web) 12/13/14).
 - PY311: Thinking and Cognition (Fall 11/12/13/14/15 and Summer 12 (web)).
 - PY410: Sensation and Perception (Winter 12/13/14/15, Fall/13).
 - PY561: Advanced Cognition (Winter 13)
 - PY512: Advanced Learning and Memory (Winter 14)
- 01. 11 – 05. 11** **University of Guelph-Humber**
Sessional Lecturer
- AHSS1120: Principles of Psychology (Winter 11).
- 10. 02 – 07. 07** **Compiegne University of Technology (UTC-France)**
Lecturer and Instructor
- NF22: Computer and applications (Spring 03/04/06/07 and Fall 04/06).
 - HE05: Biology and cognition (Spring 03/04 and Fall 03).
 - SC24_1: Introduction to neurosciences (Spring 04 and Fall 03/04).
 - SC24_2: Cognitive Science and learning (Spring 05/06/07 and Fall 05/06).

Editorial Committees and Ad-Hoc Reviews

- Fall14** **NSF External Reviewer**, Perception, Action, and Cognition program.
- 2014-2015** **NIH Early Career Reviewer**, Biobehavioral and Behavioral Processes (BBBB) section.
- 2015** **Editorial Committee**, *Intellectica: the journal of the French Assoc. for Research on Cognition*
- Philadelphia - 2016** **Program Committee**, Haptic Symposium'16
- 2015** **Reviewer** for the EuroHaptics Society PhD award 2014
- Chicago - 2015** **Associate Editor**, *Worldhaptics'15*
- Versailles - 2014** **Award Committee** for best paper presentation, *Eurohaptics'14*
Program Committee, *Eurohaptics'14*
- Houston – 2014** **Program Committee**, *Haptic Symposium'14*
- Tampere - 2012** **Program Committee**, *Eurohaptics'12*
- Seattle - 2011** **Program Committee** of the TRG (Tactile Research Group) meeting 2011 in conjunction with the Psychonomic Society meeting

St. Louis - 2010	Program Committee of the TRG (Tactile Research Group) meeting 2010 in conjunction with the Psychonomic Society meeting
Boston - 2009	Program Committee of the TRG (Tactile Research Group) meeting 2009 in conjunction with the Psychonomic Society meeting
Journals' reviews	Frontiers in Psychology (1 article); BCI (1 article); IJHCI (1 article); Acta Psychologica (1 article); Psychonomic Bulletin & Review (1 article); Presence - MIT Press (3 articles); European Journal of Cognitive Psychology (1 article); IEEE Transactions on Systems, Man, and Cybernetics--Part A: Systems and Humans (1 article); ACM Transactions on Applied Perception (4 articles), IEEE Transactions on Haptics (11 articles); Assistive Technology (2 articles); PLOS ONE (5 articles).
Conferences' reviews	CHI'15 (4 articles), Eurohaptic'14 (MetaReviewer: 5 articles), IROS'14 (1 article), Haptics symposium'14 (MetaReviewer : 8 articles), CHI'13 (1) ; WHC'13 (3 articles); UIST'12 (2 articles); Eurohaptics'12 : (5 articles); Haptics symposium'12 (2 articles); Worldhaptics'11 (3 articles); Eurohaptics'10 (2 articles); IHM'2008 (Conférence Francophone d'Interaction Homme Machine) (2 articles); ICMI'05 (2 articles); HCI'05 (2 articles)

Meetings, Conferences, and Workshops Organization

Philadelphia - 2016	Organizing committee (Finance chair) , Haptic Symposium'16
Chicago - 2015	Organizing committee (Workshop/Tutorial chair) , WorldHaptics 2015
Marquette - 2015	Conference organizing committee , UPISR 2015
Houghton - 2014	Conference organizing committee , UPISR 2014
Versailles - 2014	Workshop Organization on Non-Invasive BCI and Haptics – EuroHaptics'14 Organizing committee (Intern. Liaison Chair) , Eurohaptics'14
Houston - 2014	Organizing committee (SV chair) , Haptic Symposium'14
Daejeon - 2013	Workshop Organization on Haptics and BCI – WorldHaptics'13
Vancouver – 2012	Organizing committee (Student Volunteer Chair) , Haptic Symposium'12
Seattle - 2011	Organizer Chair of the TRG (Tactile Research Group) meeting 2011 in conjunction with the Psychonomic Society meeting
St. Louis - 2010	Organizer Chair of the TRG (Tactile Research Group) meeting 2010 in conjunction with the Psychonomic Society meeting
Boston - 2009	Organizer Chair of the TRG (Tactile Research Group) meeting 2009 in conjunction with the Psychonomic Society meeting
Compiègne - 2004	Organizing committee of ARCo'04 (The ninth colloquium of the Association for the Cognitive Research)

Professional Affiliations

2015 to date	Member of Psy Chi
2013 to date	Fellow Member of Psychonomic Society

2011 to date	Member of the Cognitive Neuroscience Society (CNS)
2008 to date	Member of the TRG (Tactile Research Group)
2007 to date	Member of the IEEE Technical Committee on Haptics (TCH)
2005 to date	Member of the Association for Computing Machinery (ACM)
2004-2007	Member of the European Project (Enactive)
2003-2005	Member of the National French Project (TCAN)
2001-2007	Member of TSH (Technology and Human Sciences), UTC
2003-2005	Member of ARCo (Association for the Cognitive Research, Compiègne, France)

University Services

Fall15	Psy Chi Students' Adviser
Winter14 to date	Director of the Neuroscience Program
Fall12 to date	Member of the Educational Technology Resources and Policy Committee (ETRPC)
Fall12 to date	NMU Quality Assurance Director search committee
2011 to date	NMU Faculty search committee NMU Psychology graduate committee NMU academic adviser (20 students a semester)
2002-2003	Students' representative at TSH department office, UTC

Research Advising

08. 11 – to date	Northern Michigan University 43 undergrad. research students and 9 master students
Fall09 - Summer 11	Wilfrid Laurier University 5 undergrad. research students and 3 master students
Summer 08	McGill University 2 undergrad. research students
Fall 05 - Spring 06	Compiègne University of Technology 5 undergrad. research students

Computer Skills

- Experience with Windows, Linux and Macintosh
- **Numerical Analysis** with MATLAB, Microsoft Excel, SPSS, Mathematica
- **Database:** MS Access 9x/200x
- **Text editing:** MS Word, Latex

- **Programming:** C/C++, Visual Basic, Java, Netbeans, Matlab, Psychtoolbox, VBA for Excel and Access
- **Web:** html, css, plone and zone management, FrontPage, SharePoint Designer, Macromedia Dreamweaver
- **Imaging/Signal/Vision:** Brain Voyager, NeuroScan (Stim and Scan), EGI Geodesics (NetStation and E-Prime), Eye-tracker (iscan), EEGLab, ERPLab, FSL, Homer, STM.
- **Other software:** Adobe Illustrator, Adobe Photoshop, Adobe Premiere, Corel draw, Corel House, MS Publisher, Macromedia Flash, Cinema 4D, Camtesia Studio.

Webmaster

- ❑ **Webmaster and administrator** of NMU Psychology Department website: <http://psychology.nmu.edu/>
- ❑ **Webmaster and administrator** of TRG (Tactile Research Group) website: <http://trg.objectis.net>
- ❑ **Webmaster** of ARCo (Association for Cognitive Research) website between 2003 and 2006
- ❑ **Webmaster** of the website of ARCo'04 (the ninth colloq of the Association for the Cognitive Research, Compiègne – France)

Languages

- ❑ **English:** Advanced, **Arabic:** Native speaker, **French:** Native speaker, **German:** Beginner