

# Prof. Buket Ayşegül ÖZBAKIR ACIMERT

## Personal Information

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## International Researcher IDs

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Yoksis Researcher ID: 174241

## Biography

Dr. Ozbakir is a full Professor at City and Regional Planning Department at Yildiz Technical University, Turkey. She has received her B.Sc. degree from City and Regional Planning from METU in 1998. In 2001, she completed her masters degree in GGIT (Geodetic & Geographical Information Technologies) with the thesis: "Monitoring Urban Land Cover/Use Changes through GIS and RS Integration: A Case Study in Elmalı Catchment Area". She has received her PhD from University of Ottawa, Canada, with the thesis: "A New Model for Quality of Urban Places: Integration of Objective and Subjective Indicators Using Information Technologies" in 2006. Between 2001-2004, she worked for two international projects 1. "Evaluation of Socio-economic Profile of Iranian Immigrants in Canada" funded by UOttawa and Embassy of Iran; 2. "Quality of Life: An Analysis in the Neighborhoods of Inner-city of Montreal" funded by Canada Mortgage and Housing Corporation (CMHC). She was a GIS specialist and worked for the "Greenbelt Protection Plan of Ontario" at the provincial Ministry of Municipal Affairs and Housing between 2004-2006.

Currently, she is the director of an interdisciplinary team through a research project titled as: "A New Perspective on the Processes of Adaptation and Integration of Urban Refugees: A Social Innovation Experiment Aimed at Building Inclusive Cities". She is also one of the researchers in an EU JPI-Urban ERA-NET funded project towards energy efficient lifestyles for smart communities. Her specialization fields are:

- I. Urban Geography
- II. Planning in the Information Age & Urban Innovation
- III. Geographic Information Science (GIScience) and Remote Sensing
- IV. Inclusive Cities and Migrant Integration
- V. Quantitative Analysis Methods
- VI. Digital Divide
- VII. Energy Efficient Urban Planning & Quality of Place

She has completed research projects funded by The Scientific and Technological Research Council of Turkey (TUBITAK) and also be an active member of the Council as referee. She retains memberships in APA, IEEE, CAG and has been engaged in editorial boards of many conferences and journals.

## Education Information

Doctorate, University of Ottawa, Faculty Of Arts, Coğrafya Bölümü, Canada 2001 - 2006

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Jeodezi Ve Coğrafi Bilgi Teknolojileri Anabilim Dalı, Turkey 1998 - 2001

Undergraduate, Middle East Technical University, Faculty Of Architecture, Department Of City And Regional Planning,

Turkey 1994 - 1998

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, A New Model for Quality of Urban Places: Integration of Objective and Subjective Indicators Using Information Technologies , University Of Ottawa, Faculty Of Arts, Geography, 2006

Postgraduate, Monitoring Urban Land Cover/Use Changes through GIS and RS Integration: A Case Study in Elmalı Catchment Area, Orta Doğu Teknik Üniversitesi, Jeodezi Ve Coğrafi Bilgi Teknolojileri Yüksek Lisans Programı, Fen Bilimleri Enstitüsü, 2001

## Research Areas

Social Sciences and Humanities, Geography, Human Geography, Geotechnical Engineering, Geographic Information Systems, City Information Systems, Architecture, City and Regional Planning, Regional Planning, Urban Planning and Development, Multi-Criteria Decision Making Analysis, Engineering and Technology

## Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Architecture, Department Of City Regional Planning, 2018 - Continues  
Associate Professor, Yildiz Technical University, Faculty Of Architecture, Department Of City Regional Planning, 2012 - 2018

Research Assistant PhD, Yildiz Technical University, Faculty Of Architecture, Department Of City Regional Planning, 2006 - 2014

Research Assistant, Yildiz Technical University, Faculty Of Architecture, Department Of City Regional Planning, 2001 - 2006

Research Assistant, University of Ottawa, Faculty Of Arts, Geography, 2001 - 2004

## Academic and Administrative Experience

Head of Department, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Graduate Programme of Applied Urban Science and Urban Innovation, 2021 - Continues

Rectorate Commissioner, Yildiz Technical University, Faculty Of Architecture, Şehir Ve Bölge Planlama Bölümü, 2016 - 2020

Yıldız Teknik Üniversitesi, Faculty of Architecture, Şehir Ve Bölge Planlama Bölümü, 2014 - 2015

Yıldız Teknik Üniversitesi, Faculty of Architecture, Şehir Ve Bölge Planlama Bölümü, 2009 - 2011

## Courses

Principals of Ecological Economics, Undergraduate, 2017 - 2018

Planning in the Information Age, Doctorate, 2017 - 2018

Planlama 7, Undergraduate, 2016 - 2017

Gayrimenkul Değerleme ve Arazi Yönetiminde Coğrafi Bilgi Bilimi Uygulamaları, Postgraduate, 2016 - 2017

## Advising Theses

- ÖZBAKIR B. A., Kapsayıcı Kent İnşaaı Amaçlı Sosyal İnovasyon Deneyi: Hatay Örneđi, Doctorate, Z.Güngördü(Student), Continues
- ÖZBAKIR B. A., Role of Learning Societies in Smart Citizens for Energy Efficient Lifestyles, Doctorate, R.Ceylan(Student), Continues
- ÖZBAKIR B. A., Bilgi Çađına Geçiş Sürecinde Yerel Yönetimler için Yeni Bir Bakış Açısı: Açık Yönetim Kapasitesini Geliştirme, Postgraduate, A.Nevruz(Student), Continues
- ÖZBAKIR B. A., Sürdürülebilir Gelişme Çerçevesinde Stratejik Enerji Planlamasına Yönelik Model Önerisi, Postgraduate, A.Veliođlu(Student), Continues
- ÖZBAKIR B. A., Üniversite Kampüslerinin Yeşil Kampüs Deđerlendirme Sistemleri Açısından Deđerlendirilmesi: Yıldız Teknik Üniversitesi Örneđi, Postgraduate, G.Aksoy(Student), Continues
- ÖZBAKIR B. A., İnşaat Atıklarının Kontrolü, Geri Kazanımı Ve Sürdürülebilir Kent Planlama Açısından bir Model Önerisi: Kadıköy Örneđi, Postgraduate, M.Karademir(Student), 2018
- ÖZBAKIR B. A., Toplum Katılımlı Cođrafi Bilgi Bilimi Uygulamalarının Kentsel Dönüşüm Çalışmalarında Kullanımı: Kadıköy Tarihi Merkezinde Örnek Çalışma, Postgraduate, E.KIRPIK(Student), 2016
- ÖZBAKIR B. A., Tactical Planning Approaches in Urban Spaces: Citizen-led Experiences in İstanbul Metropolitan Area, Postgraduate, G.AKGÜL(Student), 2016
- ÖZBAKIR B. A., Karma Kullanımlı Projelerdeki AVM'lerin Sürdürülebilirlik Çerçevesinde Performanslarının Ölçülmesine Yönelik bir Yöntem Önerisi: İstanbul Örneđi, Postgraduate, R.CEYLAN(Student), 2016

## Jury Memberships

- Appointment to Academic Staff-Assistant Professorship, Erciyes Üniversitesi Şehir ve Bölge Planlama Bölümü Yardımcı Doçentlik Kadro Atama Jürisi, Erciyes Üniversitesi, November, 2017
- Doctoral Examination, YTÜ Şehir ve Bölge Planlama Bölümü Doktora Yeterlik Jürisi, Yıldız Teknik Üniversitesi, November, 2017
- Appointment to Academic Staff-Assistant Professorship, Gedik Üniversitesi Mimarlık Fakültesi Yardımcı Doçentlik Kadro Atama Jürisi, Gedik Üniversitesi, May, 2017
- Appointment to Academic Staff-Assistant Professorship, Bozok Üniversitesi, Şehir ve Bölge Planlama Yardımcı Doçent Kadro Atama Jürisi, Bozok Üniversitesi, October, 2016
- Award, ŞPO Bitirme Projeleri Yarışma Jürisi, Şehir Plancıları Odası, June, 2015

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A CRITICAL ASSESSMENT OF RETAIL SHOPPING MALLS IN TURKEY THROUGH LEGISLATIVE FRAMEWORKS**  
Ceylan R., ÖZBAKIR B. A., Erol I.  
METU JOURNAL OF THE FACULTY OF ARCHITECTURE, vol.34, no.2, pp.245-264, 2017 (AHCI)
- II. **GLOBALIZING POLYCENTRICITY IN ISTANBUL: MAMDANI-TYPE FUZZY RULE-BASED MODEL OF CBD OFFICE SPACE RENTS**  
Erol I., Özbakır B. A.  
URBAN GEOGRAPHY, vol.33, pp.1212-1248, 2012 (SSCI)

## Articles Published in Other Journals

- I. **Increasing Energy Conservation Behavior of Individuals towards Sustainable and Energy-Efficient Communities**  
Ceylan R., Özbakır A.  
Smart Cities, vol.5, no.4, pp.1611-1634, 2022 (ESCI)
- II. **The next wave of sustainable planning: Green neighbourhood assessment systems**  
Özügül M. D., Çekiç T. I., Özbakır A.  
International Journal of Environment and Sustainable Development, vol.13, pp.109-125, 2014 (ESCI)
- III. **Yapılı Çevrenin Şekillendirilmesinde Yeni Bir Gündeme Doğru: Yeşil Yerleşim Değerlendirme Sistemleri**  
Özbakır B. A., Özügül M. D., İnal Çekiç S. Ç., T.  
Kent ve Toplum, no.1, pp.3-9, 2011 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Building a Smart Community in Kadıköy**  
Ceylan R., Velioglu A., Hatipoğlu İ., ÖZBAKIR B. A., ENLİL Z. Ş.  
in: From Efficiency to Reduction: Tackling energy consumption in across disciplinary perspective, Savini, F., Pineda Revilla, B., Pfeffer, K. Bertolini, L., Editor, in Planning, Utrecht, pp.39-66, 2020
- II. **Yer Seçimi Stratejileri**  
ÖZBAKIR B. A.  
in: Ürün Yönetimi, Tuzkaya U.R., Editor, Palme Yayınevi, Ankara, pp.325-354, 2017
- III. **Gayrimenkul Değerleme Yöntemleri**  
ÖZBAKIR B. A.  
in: Gayrimenkul Ekonomisi, Berberoğlu N., Erdoğan L., Editor, Anadolu Üniversitesi, Eskişehir, pp.84-99, 2013
- IV. **Urban Environmental Applications of GIScience: Challenges and New Trends**  
ÖZBAKIR B. A.  
in: Green and Ecological Technologies for Urban Planning: Creating Smart Cities, Ercoskun O., Editor, Igi-Global Publisher, Hershey, Pa, pp.196-215, 2011
- V. **Towards a New Perspective on Measurement of Sustainability: Comparison of Green Neighborhood Assessment Systems**  
İNAL ÇEKİÇ S. Ç., ÖZBAKIR B. A., ÖZÜGÜL M. D.  
in: The Pursuit for Global Transformation, Atabay S., Kaçmaz Z., Editor, Yıldız Technical University-Print/Publication Center, İstanbul, pp.18-26, 2011
- VI. **New Perspectives in Eco-Technology and Eco-Economy**  
ÖZBAKIR B. A.  
Ytu Yayınevi, 1

## Refereed Congress / Symposium Publications in Proceedings

- I. **UNDERSTANDING THE GAP BETWEEN ENERGY POLICIES AND REAL-PRACTICE**  
Velioglu A., Ceylan R., ÖZBAKIR B. A., ENLİL Z. Ş.  
2019 AESOP Annual Congress, "Planning for Transition", Venedik, Italy, 9 - 13 July 2019, pp.1038
- II. **THE JOURNEY OF A SMART AND ENERGY EFFICIENT COMMUNITY**  
Ceylan R., Velioglu A., ÖZBAKIR B. A., ENLİL Z. Ş.  
2019 AESOP Annual Congress "Planning for Transition", Venedik, Italy, 9 - 13 July 2019, pp.1110
- III. **Understanding the Gap Between Energy Policies and Real-Practice**  
Velioglu A., CEYLAN R., ÖZBAKIR B. A., ENLİL Z. Ş.  
2019 AESOP Conference, Venedik, Italy, 9 - 13 July 2019
- IV. **Sharing the Neighborhood with Urban Refugees and Experiencing Living-Lab**

Kurtarır E., Özbakır B. A.

The Migration Conference 2019 Bari, Bari, Italy, 18 - 20 June 2019, pp.131-132

- V. **Kentsel Mültecilerin Adaptasyon ve Uyum Süreçlerine Yeni Bir Bakış Açısı: Kapsayıcı Kent İnşası Amaçlı Sosyal İnovasyon Modeli Önerisi**  
Kurtarır E., Özbakır B. A., Karakaya Ayalp E., Çakır B.  
Dünya Şehircilik Günü 42. Kolokyumu: "Göç-Mekân-Siyaset", İzmir, Turkey, 7 - 09 November 2018
- VI. **Environmental Pollution Analysis From Urban Transformation and Construction and Demolition Waste Management: Istanbul Kadikoy Case Study**  
KARADEMİR M., ÖZBAKIR B. A.  
International City Planning and Design Conference CPUD'18, İstanbul, Turkey, 11 May 2018, pp.108-122
- VII. **The Importance of Sustainable University Campuses in Planning**  
AKSOY G., ÖZBAKIR B. A.  
SPACE-Sustainable Architecture, Planning and Urban Design 2018 Conference, Londra, United Kingdom, 28 April 2018, pp.104-112
- VIII. **Let's Be Smart and Reduce Our Energy Use!**  
CEYLAN R., ÖZBAKIR B. A., ENLİL Z. Ş.  
International Conference ISOCARP-OAPA/53rd ISOCARP Congress, Portland, United States Of America, 24 - 27 October 2017, pp.573-587
- IX. **Let's Be Smart and Reduce Our Energy Use!**  
ÖZBAKIR B. A., ENLİL Z. Ş., Ceylan R.  
ISOCARP-OAPA Conference 2017, Portland, United States Of America, 24 October 2017, pp.1-15
- X. **A Spark of Change: Awareness on Energy Efficiency on the Mobility Choices**  
Akgül G. N., Özbakır B. A., Enlil Z. Ş.  
ISOCARP-OAPA Conference 2017, Oregon, United States Of America, 24 October 2017, pp.660-670
- XI. **Let's be Smart and Reduce Our Energy**  
Ceylan R., ÖZBAKIR B. A., ENLİL Z. Ş.  
ISOCARP-OAPA Joint Conference on 'Smart Communities, Portland, OR, United States Of America, 24 - 27 October 2017, pp.571-583
- XII. **A Spark of Change: Awareness of Energy Consumption through Mobility Choices**  
Gonca A., ÖZBAKIR B. A., ENLİL Z. Ş.  
ISOCARP-OAPA Conference on Smart Commuties, Portland, United States Of America, 24 - 27 October 2017, pp.660-670
- XIII. **Development of a Public Participatory GIS Platform for Urban Transformation Projects: A Case Study in Kadikoy Historical Center**  
Kırpık E., Özbakır B. A.  
7th Annual International Conference on Urban Studies & Planning, Athens, Greece, 5 - 08 June 2017, pp.24-25
- XIV. **Spatial and Hedonic Analysis of House Price Dynamics in Istanbul**  
Erol I., ÖZBAKIR B. A.  
American Association of Geographers 2017 Conference, Boston, United States Of America, 05 April 2017, pp.1-9
- XV. **A Critical Discussion on the Urban Innovation Ecosystem in the Informastion Age: Position of Turkey**  
ÖZBAKIR B. A., Erol I.  
American Association of Geographers 2017 Conference, Boston, United States Of America, 05 April 2017, pp.1-5
- XVI. **Between Blindness of Secularism and Discrimination, Cem-Houses in Turkey**  
KURTARIR E., ÖZBAKIR B. A.  
European Consortium for Political Research (ECPR), Montreal, Canada, 26 August 2015, vol.1, no.1
- XVII. **Raster Based Walkability Index Mapping of Shopping Malls in Istanbul**  
ÖZBAKIR B. A., Korkulu H., Erol I., Ceylan R.  
ESRI International User Conference, 2015., 01 July 2015
- XVIII. **Mapping the Urban Story of Shopping Malls in Istanbul**  
ÖZBAKIR B. A., Hatice K., Işıl E., Rumeysa C.  
ESRI International Conference, 01 July 2015

- XIX. **Between Blindness and of Secularism and Discrimination Cemhouses in Turkey**  
KURTARIR E., ÖZBAKIR B. A.  
European Consortium for Political Research (ECPR) General Conference 2015, Montreal, Canada, 28 - 30 August 2015
- XX. **Metropolitan Alanda Düşük Karbon Sallımlı Yerleşmeler için Yeşil Yerleşim Değerlendirme Parametrelerine Dayalı Ulaşım Analizi: Beykoz-Akbaba Köyü**  
Hamamcıoğlu C., ÖZBAKIR B. A.  
7. Türkiye Şehircilik Kongresi, İstanbul, Turkey, 07 November 2012, pp.639-665
- XXI. **Metropolitan Alanda Düşük Karbon Salımlı Kırsal Yerleşmeler İçin Yeşil Yerleşim Değerlendirme Parametrelerine Dayalı Ulaşım Analizi: Beykoz - Akbaba Köyü**  
HAMAMCIOĞLU C. C., ÖZBAKIR B. A.  
7. Türkiye Şehircilik Kongresi, Turkey, 14 - 16 November 2011, pp.639-665
- XXII. **GIS based Digital Divide Analysis of Broadband Wireless Information Technology in Turkey**  
ÖZBAKIR B. A.  
ESRI International User Conference, 01 July 2010
- XXIII. **Specialization and Differentiation among Employment nodes within the CBD of İstanbul**  
ÖZBAKIR B. A.  
International Regional Science Association Conference, 01 May 2010
- XXIV. **GIS-Based Spatial Analysis for the Determinants of REIT-Owned Commercial Property Rents in İstanbul Metropolitan Area**  
ÖZBAKIR B. A.  
International Conference of American Real Estate and Urban Economics Society (AREUEA), 01 July 2009
- XXV. **Planlama 7**  
CENGİZ H., ÖZBAKIR B. A., ÖZÜGÜL M. D., ÖRNEK ÖZDEN E.  
Planlama Eğitiminde 25 Yıl, İstanbul, Turkey, 01 January 2009, vol.1, pp.103-112
- XXVI. **3D Mapping of th Performance of the Urban Places**  
ÖZBAKIR B. A.  
International Geosciences and Remote Sensing Symposium, 01 July 2008
- XXVII. **Performance of TDVI in Urban Land Use/Cover Classification for Quality of Place Measurement,**  
ÖZBAKIR B. A.  
International Society for Photogrammetry and Remote Sensing Conference, 01 July 2008
- XXVIII. **Spatial Distribution Mapping of Vegetation Cover in Urban Environment using TDVI for Quality of Life Monitoring**  
ÖZBAKIR B. A.  
International Geosciences and Remote Sensing Symposium, 01 July 2007
- XXIX. **Can We Map Our Feelings for the Quality of Urban Places?**  
ÖZBAKIR B. A.  
Livable Environments and Architecture International Congress, 01 July 2007
- XXX. **Synergy Between Shoreline Change Detection And Social Profile Of Waterfront Zones A Case Study In Istanbul**  
ÖZBAKIR B. A., BAYRAM B., ACAR U., UZAR DİNLEMEK A. M., BAZ İ., KARAS İ. R.  
Joint Meeting of ISPRS Commission VII, WG2 & WG7 , Conference on Information Extraction from SAR and Optical Data, 16 - 18 May 2007
- XXXI. **The Evaluation and Flow of Iranian Immigrants to Canada**  
ÖZBAKIR B. A.  
Canadian Association of Geographers Annual Conference, 01 May 2003
- XXXII. **A GIS Based Analysis of the Relation between Illegal Housing Development and Forestry Characteristics in Elmali Catchment Area of Istanbul**  
ÖZBAKIR B. A.  
Canadian Association of Geographers Annual Conference, 01 May 2003
- XXXIII. **Urban Quality of Life Assessment in Montreal Based on Housing and Population Data Using GIS**

ÖZBAKIR B. A.

Canadian Association of Geographers Ontario Division Conference, 01 September 2002

**XXXIV. The Integration of GIS & RS Technologies for Urban Environmental Monitoring Model**

ÖZBAKIR B. A.

United Nations/ESA Symposium on Enhancing the Participation of Youth in Space Activities, 01 July 2000

**XXXV. Kentsel Kültür ve Sosyal Adaptasyon**

ÖZBAKIR B. A.

20. Dünya Şehircilik Günü/4. Şehir Planlama Kongresi, 01 November 1997

## Other Publications

**I. Yeni Kentsel Gündem ve Kenti Sürdür-ebilme**

ÖZBAKIR B. A.

Other, pp.1-3, 2018

**II. Next Generation of Regional Inequality: Digital Divide / Megaron Journal**

ÖZBAKIR B. A.

Other, pp.1-2, 2012

## Supported Projects

ÖZBAKIR B. A., EU Supported Other Project, Enerji Verimli Kentsel Yaşam Biçimleri için Toplumsal Veri-Döngüleri (CODALoop), 2016 - Continues

Özbaşır B. A., Kurtarıcı E., Biricik G., Kırdar M. G., TÜBİTAK Project, A New Perspective on the Processes of Adaptation and Integration of Urban Refugees: A Social Innovation Experiment Aimed at Building Inclusive Cities, 2018 - 2020

ÖZBAKIR ACIMERT B. A., KARADEMİR M., Project Supported by Higher Education Institutions, Kentsel Dönüşüm Kaynaklı Çevresel Kirlilik Analizi ile İnşaat ve Yıkıntı Atıklarının Taşınımı, Geri Kazanımı ve Bertarafının Planlanması: İstanbul Kadıköy İlçesi Örneği, 2017 - 2018

ÖZBAKIR ACIMERT B. A., Project Supported by Higher Education Institutions, Bilgi ve İletişim Teknolojilerine Erişimde Coğrafi Bilgi Sistemleri ile Sayısal Uçurum Analizi: İstanbul Örnek Çalışması, 2011 - 2015

ÖZBAKIR B. A., Karbon Emisyonu ve Optimizasyon Problemlerine Senkronize Uygulamalar, 2010 - 2011

ÖZBAKIR B. A., TÜBİTAK Project, Gayrimenkul Yatırım Ortaklıklarının Ticari Taşınmaz Kiralarını Belirleyen Faktörlerin İstanbul Örneğinde Coğrafi Bilgi Sistemleri Ve Bulanık Mantık Yöntemi İle Mekansal Analizi, 2008 - 2010

ÖZBAKIR B. A., Other International Funding Programs, Greenbelt Protection Plan of Ontario, 2004 - 2006

ÖZBAKIR B. A., Other International Funding Programs, Quality of Life: An Analysis in the Neighborhoods of Inner-city of Montreal, 2001 - 2006

ÖZBAKIR B. A., Other International Funding Programs, Evaluation of Socio-economic Profile of Iranian Immigrants in Canada, 2002 - 2003

## Activities in Scientific Journals

The Journal of Multidisciplinary Research in Sustainability (JMRS), Special Issue Editor, 2016 - Continues

## Memberships / Tasks in Scientific Organizations

American Association of Geographers, Member, 2004 - Continues

Canadian Association of Geographers, Member, 2001 - Continues

Şehir Plancıları Odası İstanbul Şubesi, Member, 1998 - Continues

## **Scientific Refereeing**

International Journal of Geographic Information Science, SCI Journal, September 2018  
International Journal of Geographical Information Science, SCI Journal, November 2017  
Megaron, National Scientific Refreed Journal, October 2017  
TUBITAK Project, June 2017  
International Journal of Geographical Information Science, SCI Journal, November 2016  
TUBITAK Project, October 2016  
TUBITAK Project, October 2016  
TUBITAK Project, October 2016  
TUBITAK Project, October 2016  
Planlama Dergisi, National Scientific Refreed Journal, September 2013  
TUBITAK Project, June 2013  
Megaron Journal, National Scientific Refreed Journal, January 2012  
Green and Ecological Technologies for Urban Planning: Creating Smart Cities., SCI Journal, February 2011  
IEEE Geoscience and Remote Sensing Symposium, SCI Journal, March 2008

## **Metrics**

Publication: 50  
Citation (WoS): 2  
Citation (Scopus): 1  
H-Index (WoS): 1  
H-Index (Scopus): 1

## **Non Academic Experience**

Ministry of Municipal Affairs and Housing  
University of Ottawa