



Sabine LOUDCHER
Laboratoire ERIC
Université Lyon 2
5 avenue Pierre Mendès-France
69676 BRON Cedex - FRANCE
sabine.loudcher@univ-lyon2.fr

Bron, le 29 mars 2021

Lettre de recommandation

Javier Alfonso Espinosa Oviedo a réalisé son doctorat à l'Université de Grenoble sous la co-direction des Professeurs Christine Collet, Grenoble Institut de Grenoble et José Luis Zechinelli Martini, Universidad de las Américas, Puebla au Mexique et Dr. Genoveva Vargas-Solar, CNRS, France. Ses travaux portent sur la modélisation et l'exécution de propriétés non fonctionnelles pour les coordinations de services. Le travail touche différents domaines comme les systèmes basés sur les services, les propriétés non fonctionnelles (atomicité, journalisation, sécurité, adaptabilité), le traitement distribué des données appliqué aux bases de données astronomiques, gouvernementales et environnementales.

Javier Alfonso Espinosa Oviedo est post-doctorant à l'Université Lyon 2 au sein du laboratoire ERIC dans le cadre du projet ANR LIFRANUM qui vise à identifier et structurer le corpus de la littérature francophone nativement numérique (sites web, blogs, réseaux sociaux). Ancré dans les Humanités numériques, le travail de Javier Alfonso Espinosa Oviedo dans ce projet concerne la construction d'un lac de données pour soutenir l'archivage et la découverte de la production littéraire francophone sur le Web. Javier Alfonso Espinosa Oviedo est également responsable de la coordination du développement du projet et des activités de science des données.

La carrière professionnelle de Javier Alfonso Espinosa Oviedo se caractérise par une forte activité scientifique internationale puisqu'il a travaillé dans plusieurs institutions européennes et latino-américaines dans le cadre de projets nationaux et internationaux. Il s'est attaqué à des problèmes centrés sur les données volumineuses nécessitant l'utilisation d'architectures à grande échelle comme le calcul haute performance, les clusters et le cloud. Il a contribué à la proposition de solutions en interagissant avec d'autres scientifiques dans des contextes multidisciplinaires en dirigeant des lots de travail pour les projets européens.

CASES et S2EUNET du programme FP7. Deux des projets de transfert technologique, SUMMIT (LIRIS, LIG et DataMedCare Startup) et HSTREAM (Linksium, LIG, Clouding Things Startup), auxquels il a collaboré et pour lesquels il a développé des solutions logicielles, ont conduit à des résultats labellisés APP (Agence pour la Protection de Programmes).

Javier Alfonso Espinosa Oviedo a également de l'expérience dans l'enseignement et l'encadrement d'étudiants de premier cycle, ingénieurs, de master et de doctorat. Il a donné des cours dans des programmes d'études supérieures dans des universités européennes et latino-américaines. Ses stratégies pédagogiques, basées sur un enseignement pratique, ont été évaluées positivement par les étudiants et les collègues. L'idée de partager le matériel des cours en ligne montre sa volonté de promouvoir le libre accès au matériel pédagogique dans la communauté.

Javier Alfonso Espinosa Oviedo est une personne ouverte qui s'intègre facilement à son environnement professionnel. Il possède de solides compétences scientifiques et techniques et il est particulièrement apte à proposer des contributions scientifiques en utilisant des technologies de pointe. Ses compétences technologiques ont été très utiles pour travailler pendant les pandémies du COVID, car il a proposé de manière proactive des moyens d'interagir et de faire avancer les activités scientifiques avec les membres du laboratoire.

Depuis son arrivée au laboratoire ERIC, il y a sept mois, Javier Alfonso Espinosa Oviedo a publié trois articles, dont un avec des membres du laboratoire. Il a organisé un hackaton pour effectuer l'analyse d'archives Web pour l'extraction et l'annotation du contenu littéraire. Le hackaton a impliqué des membres des sciences humaines et sociales et de la science des données du projet LIFRANUM. Il a été invité dans les groupes du laboratoire pour présenter ses activités de recherche et les avancées du projet LIFRANUM.

Compte tenu de son expérience professionnelle, de ses connaissances et de ses compétences, je soutiens très fortement la candidature de Javier Alfonso Espinosa Oviedo pour un poste de maître de conférences avec un profil lié aux systèmes d'information décisionnels dans le contexte des données massives. Je suis convaincue que son énergie, sa créativité et sa connaissance des méthodes, des technologies et des outils de développement logiciel sont de grands atouts pour un tel poste. Je vous le recommande donc fortement comme candidat.



Sabine LOUDCHER
Professeure en informatique

RECOMMENDATION LETTER DR. JAVIER A. ESPINOSA-OVIEDO

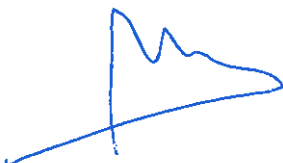
Dr. Javier A. Espinosa-Oviedo is a computer scientist that has developed his research around large scale data management and processing. During 2015-2017, he worked as postdoctoral researcher at the Barcelona Supercomputing Centre (BSC) financially supported by the Mexican Council of Science and Technology via a postdoctoral fellowship. His research concerned the "Collection and processing of big data in real-time for visualizing crowds in 3D urban spaces" in the context of the activities of the Extream Computing Team of our centre. The challenge was to provide ad-hoc data management to greedy processes (e.g., 3D visualisation) running on high performance computing architectures.

I am the Director of the Barcelona Supercomputing Center (<http://www.bsc.es/cv-mateo/>). My research focuses on high performance architectures. I have published approximately 700 papers, have served in the organization of more than 300 International Conferences and have given more than 500 invited talks. I have been honoured with several awards, among them the 3 most relevant awards in Computer Architecture field: the Eckert-Mauchly Award 2007 by the IEEE and ACM; Seymour Cray Award 2015 by IEEE; Charles Babbage 2017 by IEEE; Harry Goode Award 2009 by IEEE; the Spanish National awards "Julio Rey Pastor" and "Leonardo Torres Quevedo". "Hall of the Fame" member of the ICT European Program (selected as one of the 25 most influents European researchers in IT during the period 1983-2008. Lyon, November 2008); Honoured with "Condecoración de la Orden Mexicana del Águila Azteca" 2018, highest recognition granted by the Mexican Government. I am Honorary Doctorate by 9 Universities. I am member of 9 academies. I am a fellow of IEEE and ACM and I am also Intel Distinguished Research Fellow.

During his postdoctoral position at BSC, Dr. Espinosa-Oviedo was actively engaged in scientific activities that led to the publication and presentation of articles in international forums and preparation of grant proposals and implementation of software prototypes in the context of research projects of the BSC. Besides his scientific duties, Dr. Espinosa-Oviedo also performed teaching and dissemination activities organized by the BSC's Education and Training department. These activities were done in collaboration with other BSC researchers in different teams, and also in the context of an international collaboration with Mexico that he promoted with the Computer Science Department of Universidad Autónoma de Guadalajara.

Dr. Javier A. Espinosa-Oviedo professional qualities made of him a valuable asset, and from the above one can realize that I fully support his application for any scientific and academic position. I believe his personal qualities will also contribute to the excellent development of the institution that will hire him.

Sincerely,



Prof. Dr. Mateo Valero Cortes
Director of Barcelona Supercomputing Centre
Full Professor at Universitat Politècnica de Catalunya
Street Jordi Girona 29- Nexus II building
08034 Barcelona
mateo.valero@bsc.es
Tel: +34934134097

DATE 17/12/2019
RE Letter of recommendation dr. J.A. Espinosa Oviedo
CONFIDENTIAL I provide this letter of reference on the understanding that it will remain confidential to those concerned with considering the application of dr. J.A. Espinosa Oviedo

To whom this may concern,

It is a genuine pleasure and honor for me to recommend dr. Javier A. Espinosa Oviedo for a position at your organization. In my capacity as full Professor of Computer Science and Law at Leiden University, as chairperson of the Leiden Centre for Data Science, but mainly from my position as a board member of the LDE Centre for BOLD Cities¹, I have worked closely with dr. Javier A. Espinosa Oviedo for several times in 2018-2019. I know Javier as a kind and understanding person who's able to manage stressful and complicated projects. Many of the solutions proposed were insightful and practical and showed a capacity of breaking larger Issues into manageable segments. Especially a collaboration between three universities is a challenging environment, where collaboration is key.

His responsibilities as postdoctoral researcher included the organization of expert seminars, supervision of master students working on related topics, assisting in the ongoing projects and the search for potential new research projects valuable for the Centre for BOLD Cities. Dr. Javier A. Espinosa Oviedo was a valuable team member because of his expertise in distributed data centric systems design and Big Data management and analytics as a computer scientist. During his stay he assisted in projects related to data centric challenges in the context of the built environment and energy.

Dr. Espinosa Oviedo participated actively in the network activities of the Centre for BOLD Cities. He organized the monthly seminar BOLD Cities Talks that successfully brought speakers and audience from different educational and governmental institutions together. The seminar set the basis for a research proposal for improving disaster management in cities following a data centric approach that was awarded a 4 years BOLD Cities research grant. His leadership is also an important guideline for assessing his qualities as a research leader. Javier is a person who brings different parties into contact with each other easily. He does so in his own style, well-minded and thought through. His activities in the research project are very accurate, where he was able to translate different points of view, coming from different disciplines into one research project.

During his one-year postdoctoral position, Javier was an active member of the Centre for BOLD Cities.
His research activities led to:

- Publications in 2 international conferences (1 CORE A) and 1 international workshop, and the obtention of external funding for attending and presenting his work in these forums.
- Participation in the INTERREG EU TRIPLE-A project where he developed solutions for analyzing household energy consumption patterns in collaborating with the French Picardie Public Service for Energy Efficiency and the Laboratory of Informatics of Grenoble.
- Mentoring of 2 master students at TU Delft, 1 master student from Grenoble INP in collaboration with other members of the Centre.
- International collaborations for expert seminars.

Based on his results, I consider Dr. Espinosa Oviedo as an asset, who has shown autonomy, leadership skills and abilities for developing research activities in collaboration with multidisciplinary groups. I therefore recommend Dr. Espinosa Oviedo for an academic position involving research, teaching and mentoring within your organization.



Prof. dr. H. Jaap van den Herik
LDE Centre for BOLD Cities
Leiden Centre of Data Science (LCDS)
Leiden University

Telephone: +31 71 527 2727
Email: jaapvandenherik@gmail.com

¹ Leiden University, Delft University of Technology and Erasmus University joint research Centre for Big, Open and Linked-Data Cities



Genoveva Vargas-Solar
LIG-IMAG Building
700 av. Centrale, 38401 Saint-Martin-d'Hères
P.O. Box CS 40700 - 38058 Grenoble cedex 9
Tel: +33 (0)4 57 42 15 66

**Recommendation letter for Dr. Javier Alfonso Espinosa Oviedo
for supporting his application to the *Conseil National des Universités***

Grenoble, 14th December 2019

Dr. Javier Alfonso Espinosa Oviedo is postdoctoral fellow at University Lyon 3 in the context of the project SUMMIT of the program Pack Ambition of the region Rhône-Alpes-Auvergne, between the CNRS's LIRIS and LIG laboratories. He has been a postdoctoral fellow at the LDE Centre for BOLD Cities of Delft University of Technology, in the Netherlands, applying his data science expertise on smart cities, energy in households and built environment problems within an inter-disciplinary context. Previously, Dr. Javier Alfonso Espinosa Oviedo developed an expertise on data management and processing at scale working in cloud and HPC architectures in the Barcelona Supercomputing Centre (BSC), in Spain, where he worked for two years in the Extreme Computing group. His projects at the BSC were done in collaboration with visualisation and social sciences experts under a complementary vision of data and its use within problems needing important computing resources. Soon after having finished his PhD, Dr. Javier Alfonso Espinosa Oviedo was postdoctoral fellow at the CNRS international unit LAFMIA (UMI 3175) developing solutions for designing data management solutions in service-oriented architectures.

Summarizing, during his first years for professional career, the research of Dr. Javier Alfonso Espinosa Oviedo has focussed on the proposal of a novel data exploration and curation (querying, analysis, visualization, maintenance on storage supports, and sharing) processes that run in different architectures including cloud, high performance computing, GPU guided by data collection properties such as velocity, volume and variety. He has applied his results in the context of trendy society problems such as smart grid, smart cities, crowd management, and data centric sciences contributes with energy data curation for addressing smart grid challenges.). These activities have been



Genoveva Vargas-Solar
LIG-IMAG Building
700 av. Centrale, 38401 Saint-Martin-d'Hères
P.O. Box CS 40700 - 38058 Grenoble cedex 9
Tel: +33 (0)4 57 42 15 66

done through his participation as researcher in FP7 European projects (S2EUNET and CASES), Franco Mexican projects (ORCHESTRA ECOS-ANUIES program, e-CLOUDSS financed by LACCIR project program, CLEVER and SWANS financed by the STIC-AMSUD program of the French government). He led the project CONCERNS partially funded by a Microsoft Azure Grant, Spain and France. In the context of these projects, Dr. Javier Alfonso Espinosa Oviedo was responsible of developing the technical activities of working packages concerning the specification of policy models, the proposal of protocols implementing non-functional properties (i.e., atomicity, security, adaptability), developing data processing and data querying workflows, and designing associated experiments concerning astronomic, e-government and meteorology data collections.

Dr. Javier Alfonso Espinosa Oviedo works effectively for addressing programming and theoretic challenges under a scientific methodology and obtain valuable results that have been published in national and international conferences and journals. He also has shown abilities to understand abstract concepts and put them in practice for the construction of applications. Such applications had led to prototypes that are used for scientific purposes by scientific communities. In 2017 he participated in a technology transfer contract with Grenoble Institute of Technology Incubator, the SATT. In this context, he is one of the authors of HSTREAM a software for Internet of Things environments licenced by this institution and the start-up Clouding Things.

Dr. Javier Alfonso Espinosa Oviedo has also had a teaching and mentoring experience and has designed hands on exercises and lectures on big data management on the cloud (Azure and GoogleApp platforms), data sharding, NoSQL storage and sharing, service-based systems construction, map-reduce based data processing. He has lectured in universities and centres in Europe such as the University of Grenoble Alpes and the Barcelona Super Computing Centre, and in Latin America like at Universidad de la República and the Federal University of Rio Grande do Norte in Brazil. In general, his



Genoveva Vargas-Solar
LIG-IMAG Building
700 av. Centrale, 38401 Saint-Martin-d'Hères
P.O. Box CS 40700 - 38058 Grenoble cedex 9
Tel: +33 (0)4 57 42 15 66

lectures have been part of the master programs of these institutions. He also contributed as co-advisor of engineering and master students in French and Mexican institutions. He currently co-advises a PhD student at the University Grenoble-Alpes. As lecturer, Dr. Javier Alfonso Espinosa Oviedo is pedagogic, energetic and he encourages students in the use of state-of-the-art tools with original exercises and projects, with contemporary teaching strategies and move the interest of students.

Considering the above, I am fully convinced that Dr. Javier Alfonso Espinosa Oviedo is an excellent candidate for an associate professor position. I am sure that his intellectual and personal qualities are relevant characteristics for successfully undertaking academic activities and research projects.

Sincerely,

Dr. Genoveva Vargas-Solar
French Council of Scientific Research, France
Full time research scientist
French Mexican Laboratory of Informatics and Automatic Control
Deputy Director



**Science & Technology
Facilities Council**

Science and Technology Facilities Council

Daresbury Laboratory
SciTech Daresbury
Keckwick Lane
Daresbury
Warrington WA4 4AD

Tel +44 (0)1925 603000 Fax +44 (0)1925 603100
stfc.ukri.org

To Whom It May Concern

Professor Vassil Alexandrov
Hartree Centre Chief Science Officer, STFC
Tel +44 (0) 1925603594
Email: vassil.alexandrov@stfc.ac.uk

17 December 2019

Dear Sir/Madam,

Re: LETTER OF SUPPORT FOR DR. JAVIER A. ESPINOSA OVIEDO

Dr. Javier A. Espinosa Oviedo is a computer scientist specialized in the domains of databases and distributed systems, who worked as postdoctoral researcher in my group when I was at Barcelona Supercomputing Centre (BSC), sponsored by the Mexican Council of Science and Technology (CONACyT) via a postdoctoral fellowship.

During his postdoctoral position at BSC, Dr. Espinosa Oviedo developed his research activities in the context of his own defined project "Collection and processing of big data in real-time for visualizing crowds in 3D urban spaces". His research activities led to:

- (i) design and implementation of prototypes;
- (ii) 12 publications of which 6 journal articles (4 Scopus, 1 JCR, 1 CONACyT recognized), one book chapter and 5 workshop/symposia (1 workshop, 2 symposia and 2 posters);
- (iii) preparation of teaching material and participation as lecturer in different training programs at BSC;
- (iv) definition and write up of research projects for participating in funding calls.

He also obtained a prestigious Microsoft grant of 20K USD and several smaller grants over 2.5K USD.

During this period, Dr. Espinosa Oviedo also cooperated with other researchers at BSC and enhanced an international collaboration which resulted in the definition of trans-institutional international projects with CINVESTAV and UDLAP in Mexico, and the CNRS LAFMIA laboratory in France. These collaborations also led to the visit of some senior researchers to BSC and the invitation of two master students to conduct a 6-months internship with CONACyT mobility grants.

Because of these results, I consider that Dr. Espinosa Oviedo is a valuable asset who has exhibited curiosity, passion for his job and good research and teaching skills. In addition, he has excellent communication skills and works very well in a team as well on its own. He has shown also clear leaderships skills, both in research and teaching.

I consider Dr. Espinosa Oviedo to be my most successful CONACyT postdoc. I therefore fully support his application for a permanent position in any research or academic institution.

Yours sincerely,

Prof. Vassil Alexandrov
Chief Science Officer, Hartree Centre, STFC
Formerly: ICREA Research Professor at Barcelona Supercomputing Centre (until December 2018)

**UK Research
and Innovation**

STFC is part of UK Research and Innovation

*Dr Maria Ribera Sancho Samso
Professor of Software Engineering
Responsible of Academic BSC Programs,
PATC Director at BSC*



Barcelona Supercomputing Centre

C/ Jordi Girona 29,
Edifici Nexus II,
E-08034 Barcelona, Spain

Phone +34 (0)93 413 7968
Fax +34 (0)93 413 7721
Email patc@bsc.es
Web www.bsc.es

November 22th, 2019

Dear Sir/Madam,

Re: RECOMMENDATION LETTER DR. JAVIER A. ESPINOSA-OVIEDO

After a PhD in Computer Science and a first postdoctoral experience in two laboratories of the French Council of Scientific Research (CNRS), the Laboratory of Informatics of Grenoble and the French-Mexican Laboratory of Informatics and Automatic Control, Dr. Javier A. Espinosa-Oviedo spent two years as postdoctoral fellow in the Barcelona Supercomputing Centre (BSC), supported by the Mexican Council of Science and Technology (CONACyT). He then spent one year as postdoctoral researcher at the Delft University of Technology, in the Leiden-Delft-Erasmus Centre for BOLD Cities. He is currently research scientist at University of Lyon 3, where he participates in a technology transfer project of the region Rhône-Alpes-Auvergne addressing data integration in multi-cloud environments guided by SLA.

Dr. Espinosa-Oviedo has defined a scientific expertise that combines data centric solutions deployed on large-scale infrastructures including cloud and HPC. At BSC, he collaborated in multidisciplinary contexts with mathematicians, visualization and artificial intelligence experts for addressing contemporary big data challenges appearing in smart cities. Most of his research has been done in the context of projects funded by national and international agencies (CONACyT, CNRS, EU FP7), where he has had an active participation. I underline in particular a grant he obtained as PI through a scientific program of Microsoft Azure for working on the analysis of crowds' behavior in urban spaces.

Beyond his scientific activities, Dr. Espinosa-Oviedo has continuously contributed to the education of human resources in different institutions in Europe and Latin America. At BSC he actively participated in a variety of teaching and dissemination actions organized by my department. Particularly, he was lecturer in the Big Data Analytics course of the BSC PRACE Advanced Training program in 2016, 2017 and 2018, and speaker and chairperson in the 3rd and 4th BSC International Doctoral Symposium held at Universitat Politècnica de Catalunya, in 2017 and 2018. As lecturer, the practical nature of his courses was highly appreciated by participants.

Dr. Espinosa-Oviedo is aware that scientific activities can be empowered by promoting international collaboration. Being postdoctoral fellow at BSC he approached my department for organizing an international collaborative workshop among BSC and the Mexican universities Universidad de Guadalajara (UdeG) and Universidad Autónoma de Guadalajara (UAG). The objective was to establish academic and research collaborations with our centre. The workshop successfully brought together around 40 participants (master students and professors included) and was well received by BSC's scientists.

Dr. Espinosa-Oviedo is a dynamic person who has shown strong scientific and pedagogic teaching qualities. He also has good interpersonal qualities and has proved to be a valuable team member. Because of all of this, I strongly recommend him for a scientific and/or academic position.

Sincerely Yours,



Maria Ribera Sancho Samso
Director of the Education and Training Department
Barcelona Supercomputing Centre



Prof. Dr. Christine Collet
LIG - Campus de Grenoble
681 rue de la Passerelle - BP 72
38402 Saint Martin d'Hères Cedex
Tel : 33 4 76 82 72 48
Fax : 33 4 76 82 72 87

Saint Martin d'Hères, the 18th February, 2014

RECOMMENDATION LETTER FOR DR. JAVIER ALFONSO ESPINOSA OVIEDO

To whom it may concern,

Javier Alfonso Espinosa Oviedo finished his PhD at the University of Grenoble under my co-direction, with Dr. Genoveva Vargas Solar, French Council of Scientific Research, and Prof. José Luis Zechinelli Martini, Universidad de las Américas, Puebla in Mexico. His work addressed the modelling and execution of *non-functional properties* (atomicity, logging, security, adaptability) *for service coordination*. The results concern different areas like service based systems, distributed data processing applied to astronomic, government and environment databases. They have been published in national and international conferences. Javier Alfonso Espinosa Oviedo also developed a prototype as a proof of concepts.

Javier Alfonso Espinosa Oviedo work was associated to the project Orchestra financed by the ECOS-NORD program. He also participated in projects financed by programs of the Mexican and French governments ORCHESTRA, CLEVER, OPTIMACS, e-CLOUDSS (LACCIR). He contributed in the proposal solutions by interacting with other scientists. He contributed to the specification and technical design of hands-on exercises concerning data sharding on the Cloud (platforms Azure and GoogleApp), data services based applications (Workflow Foundation platform), and map-reduce based data querying.

Javier Alfonso Espinosa Oviedo is an open person that easily integrates to his work environment. He was also involved in the laboratory's life as president of the PhD students association (LIG Synergy) that organized scientific and social activities for PHD and post-doctoral fellows working in the lab.

Javier Alfonso Espinosa Oviedo is currently postdoctoral fellow at the French Mexican Laboratory of Informatics and Automatic Control. His project concerns economic *cost oriented data processing and brokering*. The objective is to tackle economy-oriented data brokering process of large tagged data collections exported by data markets. He is also involved as external lecturer in the Master "Web, Informatics and Knowledge" of the University Pierre Mendès, Grenoble France.

Given his profile, I support the application of Javier Alfonso Espinosa Oviedo for a postdoctoral position at Microsoft research. I am convinced that his energy, creativity and knowledge of the technology, and software development tools are great advantages for such a position. I thus strongly recommend him as a candidate according to his current status.

Prof. Dr. Christine Collet,
Grenoble Institute of Technology

San Andrés Cholula, 12th December 2019

RECOMMENDATION LETTER FOR JAVIER A. ESPINOSA OVIEDO

Javier A. Espinosa Oviedo did his final engineering project, his master thesis and his PhD on the topic "*Non functional properties of service coordinations*" under my co-direction in the Data and Knowledge Management Group that I head at Universidad de las Américas, Puebla in Mexico, and with Prof. Christine Collet and Dr. Genoveva Vargas-Solar of the HADAS group of the Laboratory of Informatics of Grenoble in France. As PhD student inscribed at University of Grenoble, Javier A. Espinosa Oviedo developed his research work seriously and with balance between theory and practice. The work touched different areas like data integration, distributed data processing and query evaluation, cloud architectures applied to astronomic, government and environment databases. Javier Alfonso Espinosa Oviedo understood these topics and integrated them to come up with important results and proposals that have been tested in a prototype implementation.

Javier Alfonso Espinosa Oviedo has been involved in different national and international projects. He was responsible of developing solutions for working packages by interacting with other scientists. He actively participated in the production of deliverables and management of projects financed by the Mexican and French governments, specifically the projects ORCHESTRA, CLEVER, OPTIMACS, e-CLOUDSS (LACCIR), SWANS, FP7 S2EUNET and CASES. I am aware of his important research results that include publication in national and international conferences.

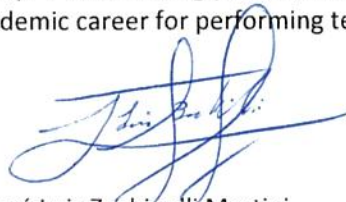
Along his professional career he has been postdoctoral fellow in different institutions including the French Mexican Laboratory of Informatics and Automatic Control (CNRS UMI 3175) in Mexico, the Barcelona Super Computing Centre (BSC) in Spain, and Delft University of Technology, in the Netherlands. He has applied his data management and distributed systems expertise in multi-disciplinary contexts deploying his solutions in different architectures like cluster, cloud, high performance computing.

Apart from the mere technical quality of his work, Javier Alfonso Espinosa Oviedo has a good talent to present his findings. This applies to his thesis that is well conceived and illustrated and thus makes it easy for the reader to follow and understand. But it also applies to the way he understands difficult topics and explains them as well as his results within limited time and for an audience that has not had the opportunity to follow his research closely, or even is not specifically knowledgeable in his specific area.

Javier Alfonso Espinosa Oviedo has also acquired a good teaching experience, preparing courses on state-of-the-art topics, and applying pedagogic techniques that combine theory and practice in a balanced way. He has taught as lecturer in master programs, and he has also prepared tutorials in

thematic schools where the hands-on have been particularly appreciated by the audience. This practice has been done in different countries and institutions which shows his extraordinary ability to cope to different audiences and academic systems. He has also mentored undergraduate and master students in different institutions and he currently co-advises a PhD. Student at the University of Grenoble Alpes.

According to my experience as his advisor and his colleague in different common projects, I am sure Javier Alfonso Espinosa Oviedo is qualified for applying for an associate professor position. This will be important to the institution that will host him because he has valuable ideas to provide and energy to inject in any academic group. I thus strongly recommend him to be certified with outstanding level for developing an academic career for performing teaching activities.



Dr. José Luis Zechinelli Martini

Full Time Professor

Department of Computing, Electronics and Mechatronics



Universidade Federal do Rio Grande do Norte
Centro de Ciências Exatas e da Terra
Depto de Informática e Matemática Aplicada
Programa de Pós-graduação em Sistemas e Computação
Campus Universitário - Lagoa Nova
59072-970 Natal, RN, Brazil
T (55) (84) 3215 3814 ext. 231
F (55) (84) 3215 3813
mam@dimap.ufrn.br

Recommendation Letter

Natal, December 1st, 2019

To Whom It May Concern:

Dr. Javier A. Espinosa Oviedo is a computer scientist developing research on cloud and service-based data centric systems. He obtained his PhD from University of Grenoble in 2013 for his thesis "Reliable coordination of data services based on active policies". He obtained his master diploma and engineering in Computing Systems diploma from Universidad de las Américas Puebla with collaboration with Laboratory of Informatics of Grenoble in France. He has been a scientist of the French Mexican Laboratory of Informatics and Automatic Control, the Barcelona Supercomputing Centre, and Delft University of Technology, where he contributed with his expertise to solve data challenges in the context of scientific projects addressing smart cities, risk management and e-Humanities and political sciences.

I worked with Dr. Espinosa-Oviedo in two of these projects: E-CLOUDSS (Microsoft Research-LACCIR, 2008-2010) and CLEVER (STIC-AmSud, 2011-2013). In my experience, he is a committed researcher, with strong theoretical and technical skills, a natural disposition towards teamwork, and leadership qualities. These characteristics make of him a valuable scientific partner.

Dr. Espinosa Oviedo has also played an active role in the scientific and academic international cooperation between France and Brazil. For instance, as co-organizer of the first and second editions of the Franco-Brazilian thematic schools on Smart Cities, held in Grenoble, France, and Natal, Brazil, in 2015 and 2017, respectively. He contributed also as invited lecturer in the master on computer science program of my institution in 2017. He was also the main organizer of the PhD-Synergy Seminar on Web Services, held at the Laboratory of Informatics of Grenoble in 2010, where he invited me to participate as guest speaker.

Given his rich professional and research activities, **I strongly recommend** him for an academic or research position. I am certain he will positively contribute to the scientific activities of any institution he will join.

Sincerely,

Prof. Martin A. Musicante
Computer Science Department
Federal University of Rio Grande do Norte (UFRN)