

# CURRICULUM VITAE : Jean Marcel NGOKO DJIOKAP



## CONTACT INFORMATION

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## POSITIONS HELD

- University of Nebraska-Lincoln, USA
  - ❖ **Research Assistant Professor** **August 2014- Present**  
My full-time duties involve 100% of my time on research, except occasionally when I teach undergraduate physics courses. Collaborating with Georges Holmes Professor Anthony F. Starace, my research activities are focused on theoretical atomic, molecular, & optical physics within the general areas of ultrafast, attosecond, and strong field physics.
  - ❖ **Lecturer** for Physics 212 "General Physics II" **Summer 2015**  
The second semester introductory course for science & engineering majors.
  - ❖ **Substitute Lecturer** for Physics 115 "Descriptive Physics" **Fall 2015**  
The second semester introductory course for science & engineering majors.
  - ❖ **Substitute Lecturer** for Physics 916 "Quantum Mechanics I" **Spring 2016**  
The course for graduate students.
- University of Nebraska-Lincoln, USA
  - ❖ **Postdoctoral Research Associate** **Feb. 2010- July 2014**  
Advisor: Prof. Anthony F. Starace
  - ❖ **Lecturer** for Physics 211 "General Physics I" **Fall 2012**
  - ❖ **Lecturer** for Physics 211 "General Physics I" **Summer 2014**  
The first semester introductory course for science & engineering majors.
- Université catholique de Louvain, Belgium
  - ❖ **Research Assistant** as a graduate student **Dec. 2005 - Feb. 2010**
- The Abdus Salam International Centre for Theoretical Physics, (ICTP), Trieste, Italy
  - ❖ **Young collaborator** under the associateship scheme **06/04-09/04**
- University of Douala, Cameroon **2001-2005**

- ❖ **Research Assistant** (0.67 FTE)
  - ❖ **Teaching Assistant** (0.33 FTE)
6. CES de Baboutcheu Ngaleu, Cameroon 2002-2005
- ❖ **Teacher of high school** (1.0 FTE)

## Brief Summary of Career Benchmarks (as of 21 Nov 2015)

1. **More than five years of experience in research** at the University of Nebraska-Lincoln (UNL). **Three years of experience in teaching at UNL.**
2. Member of the **American Physical Society (APS)**, and of the **APS Topical Group on Few-Body Systems.**
3. **International researcher: I have been the lead researcher of several international collaborations** involving researchers from the United States of America, Russian Federation, Denmark, Belgium, Cameroon and China.
4. **Published nine peer-reviewed journal articles** as first author, including two articles recently published in *Physical Review Letters* (PRL), one published in *New Journal of Physics* (NJP), five published in *Physical Review A* (PRA), and one published in *Physica Scripta* (PS) IOP Science. PRL with a 2014 impact factor of 7.512 is ranked first among physics and mathematics journals by Google Scholar using their five-year *h*-index metrics, and first among physics journals with an Eigenfactor of 0.94. NJP has a 2014 impact factor of 3.558. PRA has a 2014 impact factor of 2.808. PS has a 2014 impact factor of 1.126. The number of citations to published work according to Google Scholar is 58, which corresponds to a Hirsch Index of 4.
  - a) The research work *Phys. Rev. Lett.* **115**, 113004 (2015) **appears on the Cover of Physical Review Letters.** For the online version see the 09/11/2015 issue at <https://journals.aps.org/prl/issues/115/11>
  - b) The research work *Phys. Rev. Lett.* **115**, 113004 (2015) has been **highlighted by U.S. Department of Energy** (DoE). It will be available soon.
  - c) The research work *Phys. Rev. Lett.* **115**, 113004 (2015) has been **highlighted by Nature Physics.** The article was written by Editor Iulia Georgescu. For the online version see *Nat. Phys.* **11**, 800 (2015).
  - d) The research work *Phys. Rev. Lett.* **115**, 113004 (2015) has been **featured in the UNL news room.** The article was written by Scott Schrage. For the online version see <http://news.unl.edu/free-tags/jean-marcel-ngoko-djiokap/>
  - e) The research work *Phys. Rev. Lett.* **113**, 223002 (2014) has been **highlighted by Photonics Spectra.** For the online version see page 32 of the 02/2015 issue <http://www.photonics.com/Article.aspx?PID=5&VID=125&IID=801&Tag=Tech+Pulse&AID=56939>
  - f) The research work *Phys. Rev. Lett.* **113**, 223002 (2014) has been **featured in the UNL news room.** This article was written by Scott Schrage and may be viewed here: <http://news.unl.edu/newsrooms/unltoday/article/study-details-laser-pulse-impacts-on-behavior-of-electrons/>

- g) The research work *New J. Phys.* **14**, 095010 (2012) has been **highlighted in a special issue of New Journal of Physics**. “*Focus on correlation effects in radiation fields*,” the online version of this article may be viewed here: [http://iopscience.iop.org/1367-2630/15/6/065015/pdf/13672630\\_15\\_6\\_065015.pdf](http://iopscience.iop.org/1367-2630/15/6/065015/pdf/13672630_15_6_065015.pdf)
5. **Judge of the work of others in the same or an allied academic field:** Reviewer for five peer-reviewed scientific journals in physics and chemistry, namely,
- Photonics Journal*
  - Nature Communications*
  - Journal of Chemical Physics*
  - The European Physical Journal D*
  - New Journal of Physics*
6. **Original scientific or scholarly research contributions to the academic field.**
- Discovery of spiral vortex patterns from interference of electron waves following photoionization of helium by a pair of circularly-polarized attosecond pulses.** The peer-reviewed article was published in *Physical Review Letters* and has been highlighted by four other journals or media (see 4.a, 4.b, 4.c, and 4.d above).
  - Expert on highly-correlated processes in attosecond physics.** Published four peer-reviewed articles (one in *Physical Review Letters*, two in *Physical Review A* and one in *New Journal of Physics*). For three ultrafast processes, the role played by electron-electron correlation when controlling electron motion on its natural time scale (which is a main goal of attosecond science) was investigated both numerically and analytically.
  - Excellent skills in high performance computing (HPC):** The first in the world to develop and maintain a grid-type large-scale parallel MPI code to numerically solve the **six-dimensional time-dependent Schrödinger equation for the helium atom interacting with a single or several arbitrarily-polarized few-cycle extreme ultraviolet attosecond laser pulse(s) delayed in time eventually**. As an application, this code for different ultrafast processes can serve to characterize the existing linearly-polarized attosecond pulse or the upcoming produced chiral attosecond laser pulses.
  - Expert in state-of-the-art *ab initio* two-electron calculations.** Developed a configuration interaction (CI)-type code capable to treat interaction of two-active-electron systems (including He, H<sup>-</sup>, Li<sup>-</sup>, Be, Mg) with linearly-polarized, intense and strong attosecond and femtosecond laser pulses. Published two peer-reviewed articles (in *Physical Review A*) on the use of the target orbital structure to improve the rather poor efficiency of production of high-order harmonic generation (HHG) from atomic gas. Or inversely, our works showed that HHG can be viewed as a tool to reveal target structure.
7. **Six oral presentations (contributed talks) on my research results** at the national Division of Atomic, Molecular and Optical Physics (DAMOP) or joint meetings: (1) Houston, Texas in 2010, (2) Atlanta, Georgia in 2011, (3) Orange County, California in 2012, (4) Quebec City, Canada in 2013, (5) Madison, Wisconsin in 2014, and (6) Columbus, Ohio in 2015.

8. **Eight oral presentations (presented by either myself or my postdoc advisor) at the international physics Conferences and Workshops, Seminars and Colloquia:** (1) Cape-Town, South Africa in 2007, (2) Sarajevo, Bosnia and Herzegovina in 2011, (3) Paris, France in 2013, (4) Zhangjiajie, China in 2014, (5) Beijing, China in 2014, (6) Munich, Germany in 2014, (7) Dresden, Germany in 2014, (8) Aarhus University, Denmark in 2014.
9. **Four poster sessions:** (1) Hasselt University, Belgium in 2008, (2) Manhattan, Kansas in 2013, (3) Saint-Sauveur, Canada in 2015, and (4) EPSCoR Symposium, Lincoln, Nebraska in 2015.
10. **Invited Participant in the 2014 KITP program:** “Frontiers of Intense Laser Physics” Santa Barbara, CA, July-September, 2014. Gave an oral presentation on the title: “*Nonlinear Dichroism in Double Ionization of He by an Intense Elliptically Polarized Few-Cycle XUV Pulse,*” Sept. 17, 2014.
11. **Invited Participant of the Workshop on Insights into AMO Physics and Related Fields in honor of Professor Anthony Starace's 70th birthday,** Lincoln, Nebraska, 08/22/2015. Gave an oral presentation on the title: “Matter-wave vortices”.

## EDUCATION

- |   |                              |
|---|------------------------------|
| <b>Ph.D.</b> Physics, Université catholique de Louvain,<br>Louvain-la-Neuve, Belgium<br>Advisor: Prof. Bernard Piraux<br>Thesis: Electron correlations in the ionization-excitation of helium by absorption of two-photon XUV and by fast electrons impact & Effects of the electron's anomaly in relativistic laser-assisted Mott scattering.<br><a href="http://dial.academielouvain.be/downloader/downloader.py?pid=boreal:29157&amp;datastream=PDF_01">http://dial.academielouvain.be/downloader/downloader.py?pid=boreal:29157&amp;datastream=PDF_01</a> | <b>Dec. 2005 - Feb. 2010</b> |
| <b>M.S.</b> Physics, University of Douala, Cameroon<br>Advisor: Prof. Moise G. Kwato Njock<br>Thesis: Mott's scattering in strong laser field.  | <b>Apr. 2002 - Jun. 2003</b> |
| <b>B.S.</b> Physics, University of Yaoundé I, Cameroon  | <b>2000-2001</b>             |
| <b>A.B.</b> Physics, University of Yaoundé I, Cameroon  | <b>1997-2000</b>             |
| <b>DIPES I</b> Physics, Ecole Normale Supérieure de Yaoundé, Cameroon<br>University of Yaoundé I, Degree for High School Teacher  | <b>1998-2001</b>             |

## PEER REVIEWED PUBLICATIONS

1. **J. M. Ngoko Djiokap**, S.X. Hu, L.B. Madsen, N. L. Manakov, A.V. Meremianin, and Anthony F Starace. “*Control of double photoionization of helium by a pair of arbitrarily-polarized attosecond pulses,*” (in preparation).
2. **J. M. Ngoko Djiokap**, S.X. Hu, L.B. Madsen, N. L. Manakov, A.V. Meremianin, and Anthony F Starace. “*Multi-start spiral electron vortices in ionization by circularly polarized pulses,*” (in preparation).

3. **J. M. Ngoko Djiokap**, and Anthony F Starace. “*Few-cycle UV pulse single ionization of He ( $1s2s^3S^e$ ) excited state*,” (in preparation).
4. **J. M. Ngoko Djiokap**, N. L. Manakov, A.V. Meremianin, S.X. Hu, L.B. Madsen, and Anthony F Starace. “*Probing the role of symmetry in few-cycle pulse double ionization of helium*,” (in preparation).
5. **J. M. Ngoko Djiokap**, and Anthony F Starace. “*Breakdown of the slowly varying envelope assumption on few-cycle pulse interaction with atoms*,” (in preparation).
6. **J. M. Ngoko Djiokap**, S.X. Hu, L.B. Madsen, N. L. Manakov, A.V. Meremianin, and Anthony F Starace. “*Electron vortices in photoionization by circularly polarized attosecond pulses*,” Phys. Rev. Lett. **115**, 113004 (2015). [This letter appears on the Cover of Physical Review Letters, see the 09/11/2015 issue at <https://journals.aps.org/prl/issues/115/11>; it was highlighted by Nature Physics (see Nat. Phys. **11**, 800 (2015)) and by U.S. Department of Energy (DoE) (it will appear soon); and finally was featured as an article in UNL newsroom (see the article written by Scott Schrage at <http://news.unl.edu/free-tags/jean-marcel-ngoko-djiokap/>)].
7. **J. M. Ngoko Djiokap**, N. L. Manakov, A.V. Meremianin, S.X. Hu, L.B. Madsen, and Anthony F Starace. “*Nonlinear Dichroism in Back-to-Back Double Ionization of He by an Intense Elliptically Polarized Few-Cycle Extreme Ultraviolet Pulse*,” Phys. Rev. Lett. **113**, 223002 (2014). [This Letter was featured in an article on p. 32 of the February 2015 issue of Photonics Spectra; the online version of the article may be viewed here: <http://www.photonics.com/Article.aspx?PID=5&VID=125&IID=801&Tag=Tech+Pulse&AID=56939>; It was featured as an article in UNL newsroom (see the article written by Scott Schrage at <http://news.unl.edu/newsrooms/unltoday/article/study-details-laser-pulse-impacts-on-behavior-of-electrons/>)].
8. **J. M. Ngoko Djiokap**, and Anthony F Starace. “*Resonant Enhancement of the Harmonic Generation Spectrum of Beryllium*,” Phys. Rev. A **88**, 053412 (2013).
9. **J. M. Ngoko Djiokap**, N. L. Manakov, A.V. Meremianin, and Anthony F Starace. “*Carrier-envelope-phase-induced asymmetries in double ionization of Helium by an intense few-cycle XUV pulse*,” Phys. Rev. A **88**, 053411 (2013).
10. **J. M. Ngoko Djiokap**, Suxing Hu, Wei-Chao Jiang, Liang-You Peng and Anthony F Starace. “*Asymmetries in Production of  $He^+(n=2)$  with an Intense Few-Cycle Attosecond Pulse*”, Phys. Rev. A **88**, 011401(R) (2013).
11. **J. M. Ngoko Djiokap**, Suxing Hu, Wei-Chao Jiang, Liang-You Peng and Anthony F Starace. “*Enhanced asymmetry in few-cycle attosecond pulse ionization of He in the vicinity of autoionizing resonances*,” New J. Phys. **14**, 095010 (2012). This work has been highlighted in a special issue of New J. Phys.: “*Focus on correlation effects in radiation fields*,” [http://iopscience.iop.org/1367-2630/15/6/065015/pdf/13672630\\_15\\_6\\_065015.pdf](http://iopscience.iop.org/1367-2630/15/6/065015/pdf/13672630_15_6_065015.pdf).
12. **J. M. Ngoko Djiokap** and Anthony F. Starace. “*Evidence of the  $2s2p(^1P)$  doubly excited state in the harmonic generation spectrum of helium*,” Phys. Rev. A **84**, 013404 (2011).

13. **J. M. Ngoko Djiokap**, E. Fomouuo, M. G. Kwato Njock, X. Urbain and B. Piraux. “*Electron-impact ionization excitation of helium in the quasiphoton regime,*” *Phys. Rev. A* **81**, 042712 (2010).
14. **J. M. Ngoko Djiokap**, H. M. Tetchou Nganso and M. G. Kwato Njock. “*Effects of the Electron’s Anomaly in Relativistic Laser-Assisted Mott Scattering,*” *Phys. Scr.* **75**, 726-733 (2007).

## SCIENTIFIC REPORTS

- 1) **J. M. Ngoko Djiokap**, H. M. Tetchou Nganso and M. G. Kwato Njock. “*Effects of the Electron’s Anomaly in Relativistic Laser-Assisted Mott Scattering,*” Preprint N° IC/2006/007, The Abdus Salam ICTP Publications (2006).
- 2) **J. M. Ngoko Djiokap**, H. M. Tetchou Nganso and M. G. Kwato Njock. “*Coulomb effects in Relativistic Laser-assisted Mott Scattering,*” Preprint N° IC/2004/82, The Abdus Salam ICTP Publications (2004).

## INVITED CONFERENCE PRESENTATIONS (Presenter is underlined)

1. **J.M. Ngoko Djiokap**, N.L. Manakov, A.V. Meremianin, S.X. Hu, L.B. Madsen, and Anthony F. Starace, “Nonlinear dichroism in double ionization of He by an intense elliptically-polarized few-cycle XUV pulse,” *International Workshop on Strong Field Physics and Ultrafast Phenomena (SFPUP 2014)*, Zhangjiajie, Hunan, China, 1 November 2014.
2. **J.M. Ngoko Djiokap**, N.L. Manakov, A.V. Meremianin, S.X. Hu, L.B. Madsen, and A. F. Starace, “Nonlinear dichroism in double ionization of He by an intense elliptically-polarized few-cycle XUV pulse,” *International Workshop on Atomic Physics*, Max Planck Institute on the Physics of Complex Systems, Dresden, Germany, 24 November 2014.
3. Anthony F. Starace, with collaboration of **J. M. Ngoko Djiokap**. “*Attosecond Physics - Probing and Controlling Matter on Its Natural Time Scale,*” Session M14: Invited session: Physics for Everyone, APS March Meeting, *Bull. Am. Phys. Soc.* **59** (1), 486 (2014).
4. Anthony F. Starace, with collaboration of **J. M. Ngoko Djiokap**, Suxing Hu, Wei-Chao Jiang and Liang-You Peng. “*Correlation Effects in Intense Laser-Atom Processes,*” 2013 Joint Meeting of the APS DAMOP, and the CAP DAMOP, Quebec City, Quebec, Canada, 3-7 June 2013. *Bull. Am. Phys. Soc.* **58** (6), 131 (2013).
5. **J. M. Ngoko Djiokap** and Anthony F Starace with collaboration of Suxing Hu, Wei-Chao Jiang and Liang-You Peng. “*Electron correlation effects in intense laser-atom processes,*” *Atomic Molecular and Optical Science (AMOS) 2012 Research Meeting*, Bolger Center, Potomac, MD, 28-31 October 2012.

6. **J. M. Ngoko Djiokap** and Anthony F Starace. “Evidence of the  $2s2p(^1P)$  Doubly-Excited State in the Harmonic Generation Spectrum of Helium,” 20<sup>th</sup> International Laser Physics Workshop, Sarajevo, Bosnia and Herzegovina, 15 July 2011.

## CONTRIBUTED CONFERENCE PRESENTATIONS

(Presenter is underlined)

1. **J. M. Ngoko Djiokap**, N. L. Manakov, A.V. Meremianin, S.X. Hu, L.B. Madsen, and Anthony F Starace. “Nonlinear dichroism in double ionization of He by an intense elliptically-polarized few-cycle XUV pulse,” KITP Program: Frontiers of Intense Laser Physics, July 21 – September 19, 2014; Santa Barbara, CA.
2. **J. M. Ngoko Djiokap**, N. L. Manakov, A.V. Meremianin, and Anthony F Starace. “Carrier-envelope-phase-induced asymmetries in double ionization of Helium by an intense few-cycle XUV pulse,” 45th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics, Madison, Wisconsin, 2-6 June 2014.
3. **J.M. Ngoko Djiokap**, S. Hu, W.-C. Jiang, L.-Y. Peng, and A.F. Starace, “Electron Correlation Effects in Intense Laser-Atom Processes,” 4<sup>th</sup> International Conference on Attosecond Physics, Paris, France, 8-12 July 2013. [Selected for oral presentation.]
4. **J.M. Ngoko Djiokap** and A.F. Starace, “Electron Correlations in Harmonic Generation Spectra of Beryllium,” Bull. Am. Phys. Soc. **58** (6), 141 (2013).
5. **J.M. Ngoko Djiokap**, S.X. Hu, and A.F. Starace, “Asymmetries in Production of  $He^+(n=2)$  with and Intense Few-Cycle Attosecond Pulse,” Bull. Am. Phys. Soc. **57** (5), 68 (2012).
6. **J.M. Ngoko Djiokap** and A.F. Starace, “Evidence of the  $2s2p(^1P)$  Doubly Excited State in the Harmonic Generation Spectrum of He,” Bull. Am. Phys. Soc. **56** (5), 70 (2011).
7. **J. M. Ngoko Djiokap**, E. Fomouo, M. G. Kwato Njock, X. Urbain and B. Piraux, “Electron-Impact Ionization Excitation of Helium in the Quasiphoton Regime,” Bull. Am.Phys.Soc.**55**(5),(2010): <http://meetings.aps.org/Meeting/DAMOP10/Session/L5.1>
8. **J. M. Ngoko Djiokap**, H. M. Tetchou Nganso and M. G. Kwato Njock. “Coulomb Effects in Relativistic Laser-Assisted Mott Scattering,” The 7th International Workshop of African network LAM, CEPAMOQ, Douala, Cameroon, 2004.
9. **J. M. Ngoko Djiokap**, H. M. Tetchou Nganso and M. G. Kwato Njock. “Effects of the Electron’s Anomaly in Relativistic Laser-Assisted Mott Scattering,” The 6th Eduard Bouchet-Abdus Salam Institute International (EBASI) Conference, iThemba Labs, Cape Town, South Africa, 23-26 January 2007.

## SEMINARS AND COLLOQUIA (Presenter is underlined)

1. J. M. Ngoko Djiokap, “Ionization of He by an intense, Few-cycle Attosecond XUV Pulse”, AMO Seminar Series, Department of Physics and Astronomy, Aarhus University, Denmark, 27 November (2014).
2. A.F. Starace, “Nonlinear dichroism in double ionization of He by an intense elliptically-polarized few-cycle XUV pulse,” Seminar, Department of Physics, Peking University, Beijing, China, 6 November 2014.
3. A.F. Starace, “Using Attosecond XUV and Electron Pulses to Control and Image Electronic Motion,” Seminar, Department of Physics, Technical University of Munich, Garching, Germany, 21 November 2014.
4. J. M. Ngoko Djiokap, N. L. Manakov, A.V. Meremianin, S.X. Hu, L.B. Madsen, and Anthony F Starace. “Nonlinear dichroism in double ionization of He by an intense elliptically-polarized few-cycle XUV pulse,” KITP program: “Frontiers of Intense Laser Physics” University of California-Santa Barbara, CA, July-September (2014).
5. J.M. Ngoko Djiokap and A.F. Starace, “Evidence of the  $2s2p(^1P)$  Doubly Excited State in the Harmonic Generation Spectrum of He,” Wildcorn Meeting, University of Nebraska-Lincoln, 15 October (2011).
6. J.M. Ngoko Djiokap and A.F. Starace, “Evidence of the  $2s2p(^1P)$  Doubly Excited State in the Harmonic Generation Spectrum of He,” University of Nebraska-Lincoln, April (2011).

## High Performance Computing WORKSHOPS

1. Participant to the “NICS/RDAV HPC Spring Workshop,” 524 Min Kao Engineering Building 1520 Middle Drive, Univ. of Tennessee – Knoxville, 19-22 March (2012).
2. Participant “Tools for computational physics,” Trieste, Italy, 06/03 – 11/03 (2006).

## RECOGNITIONS AND HONORS

1. My research work is primarily supported by the **U.S. Department of Energy (DOE), Office of Science, Basic Energy Sciences (BES)**, under the grant “Dynamics of Few-Body Atomic Processes,” under Award No. DE-FG03-96ER14646.
2. My research work is partially supported by the **Air Force Office of Scientific Research (AFOSR)**, under the grant “Ultrafast Imaging of Electronic Motion in Atoms and Molecules,” under Award No. FA9550-12-1-0149.
3. My research work is partially supported by the **National Science Foundation (NSF)**, under the grant “Collaborative Research: Imaging and Controlling Ultrafast Dynamics of Atoms, Molecules and Nanostructures,” under Award No. IIA-1430519.
4. Scholarship from **Administration Des Relations Internationales (ADRI)** de l’Université Catholique de Louvain, Belgium (December 9th 2005 – October 2009).



5. Young collaborator under the associateship scheme, **Swedish International Development Agency (SIDA) - The Abdus Salam International Centre for Theoretical Physics (ICTP)**, Trieste, Italy, (June 4 – September 4, 2004).
6. Fellowship from **the Abdus Salam ICTP (Italy) and Swedish International Development Agency**, February 2004 - June 3 and September 5 – August 2006.
7. Fellowship from **the Abdus Salam ICTP (Italy) and the Centre for Atomic Molecular Physics and Quantum Optics (CEPAMOQ)**, Cameroon, April 2002–August 2006.

## REFERENCES

1. **Prof. Anthony F. STARACE (Postdoctoral Associate Research Advisor)**  
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2. **Prof. Bernard PIRAUX (Ph.D Advisor)**  
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6. **Prof. Liang-You Peng (Research collaborator)**  
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