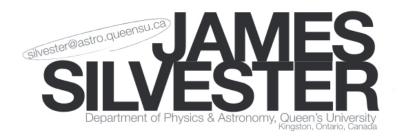
DOB: 20th June 1981

NATIONALITY: British

LANGAUGES:

English French



ADDRESS: Department of Physics, Royal Military College of Canada, PO Box 17000,

Station Forces, Kingston, Ontario CANADA, K7K 7B4

EDUCATION JAN 2007 - PRESENT Queen's University, Canada

PhD in Astrophysics (Expected May 2012)

"High Resolution Magnetic Studies of Intermediate Mass Stars"

Advisors: Dr. Gregg Wade and Dr. David Hanes

SEPT 2004 - MAY 2007 Queen's University, Canada

MSc in Astrophysics

"Rotation, Chemical Abundances and Magnetic Fields of Ap Stars in Nearby Open

Clusters"

Advisors: Dr. Gregg Wade and Dr. David Hanes

SEPT 2000 - JULY 2004 University of Hertfordshire, UK

BSc (Hons) in Astrophysics with a Year in Europe

Advisor: Dr. Philip Lucas

RESARCH

RESEARCH Stellar Spectropolarimetry, Stellar Magnetism, Magnetic Doppler Imaging

INTERESTS and Instrumentation.

RESEARCH SEPT 2004 - PRESENT Research Assistant

EXPERIENCE Royal Military College and Queen's University, Kingston, Ontario

Reduction and analysis of high resolution stellar spectropolarimetric data for magnetic

field characterisation and for performing Magnetic Doppler Imaging.

Abundance analysis of Ap stars.

Advisors: Dr. Gregg Wade and Dr. David Hanes

SEPT 2007 & MAY 2010 Visiting Researcher

University of Uppsala, Sweden

Received hands-on experience with the computation techniques used in Magnetic

Doppler Imaging (MDI).

Advisor: Dr. Oleg Kochukhov

SEPT 2006 - DEC 2006 Research Assistant / Visiting Student

European Southern Observatory, Santiago, Chile

Reduced and analyzed high resolution stellar spectropolarimetric data.

Advisor: Dr. Stefano Bangulo

SEPT 2002 - JUNE 2003 Research Assistant / Observing Assistant

l'Observatoire Midi-Pyrénées, Tarbes, France

Reduced and analyzed high resolution stellar spectropolarimetric data.

Obtained data using the 2 meter French national telescope (Telescope Bernard Lyot).

Observed on behalf of international collaborators.

Prepared observing schedules and collaborated with local supervisor on research projects.

Advisor: Dr. Michel Auriere

TEACHING & OUTREACH

EXPERIENCE JAN 2012 - APRIL 2012 Sessional Lecturer

University of Ontario Institute of Techniology, Canada

Lecturer for an introductory astronomy course for non-science majors .

JAN 2011 - APRIL 2011 Physics Tutor

Royal Military College, Canada

Introductory physics tutor for students taking the Aboriginal Leadership Opportunity Year (ALOY) course at RMC.

APRIL 2008 - APRIL 2009 Observatory Coordinator

Queen's University, Canada

Responsible for the operations of the observatory for public tours and student labs. Provided technical support to the telescopes including routine maintenance, pointing calibrations on the portable telescope and testing and alignment of the main telescope optics. Organized tours and disseminated publicity to the press.

Gave telescope tours, including teaching members of the public about the night sky.

SEPT 2004 – JAN 2011 Teaching Assistant

Queen's University, Canada

Instructor, demonstrator and marker for physics 101 and astronomy 101 labs.

Oversaw first year tutorials for physics 101. Secondary lecturer for astronomy 101.

PUBLIC LECTURES

JAN 2012 - Royal Astronomical Society of Canada, Kingston, Canada **Stellar Cartography**

MAY 2009 - Queen's University MiniU 2009

Where Queen's Astronomers go to Observe

NOV 2009 - Queen's University, Astronomy History Day

The Life of William Herschel

FEB 2008 - Armagh, Northern Ireland

Astronomers Trips

MAY 2006 - Royal Astronomical Society of Canada, Kingston, Canada

The Pic du Midi Observatory

SUMMER 2003 - North Essex Astronomical Society, UK

The Pic du Midi Observatory

SUMMER 2003 - Loughton Astronomical Society, UK

The Pic du Midi Observatory

POPULAR PRESS

Astronomy Now Magazine (UK)

Article: The Pic (du Midi) of the crop (Vol. 18, No. 2, 2004) **Book Review:** The edge of infinity (Vol. 18, No. 7, 2004)

Book Review: Life in the solar system and beyond (Vol. 19, No. 3, 2005)

Astrarium (An Astronomy Radio Show on CFRC 101.9FM and Astronomy.FM)

Host and producer of a series of radio shows discussing astronomical topics. Aired from September 2008 until April 2009 on CFRC, now being rebroadcast on Astronomy.FM and itunes as a podcast.

OTHER

PROFESSIONAL DEVELOPMENT - Ithaca College, NY, US

NASA CAE (Centre for Astronomy Education) Workshop

Attended an intensive two day workshop aimed at teaching the techniques and theory behind the effective teaching of astronomy at a 101 level (to non-science majors) using the peer-instruction method.

ORGANIZATIONAL POSITIONS

CASCA RMC 2007

Member of LOC for the Canadian Astronomical Society Meeting hosted by RMC in 2007.

Canadian Space Summit Conference RMC 2009

Member of LOC, role included technical management of all presentations and panel discussions.

Kingston IYA (International Year of Astronomy) Organizing Committee

REFEREED PUBLICATIONS

Bailey, J. D., Landstreet, J. D., Bagnulo, S., Fossati, L., Kochukhov, O., Paladini, C., **Silvester, J.,** Wade, G, 2011, A&A, 535, 25, *Magnetic Field and Atmospheric Chemical Abundances of the Magnetic Ap Star HD 318107*

Folsom, C. P., Kochukhov, O., Wade, G. A., **Silvester, J.**, Bagnulo, S., 2010, MNRAS, 407, 2383, *Magnetic field, chemical composition and line profile variability of the peculiar eclipsing binary star AR Aur*

Shavrina, A. V.; Glagolevskij, Yu. V., **Silvester, J.**, Chuntonov, G.A.,Khalack,V.R., Pavlenko,Ya.V., 2010, MNRAS, 401,1882, *Spots structure and stratification of helium and silicon in the atmosphere of He-weak star HD 21699*

Silvester, J., Neiner, C., Henrichs, H. F., Wade, G. A., Petit, V., Alecian, E., Huat, A.-L., Martayan, C., Power, J., Thizy, O., 2009, MNRAS, 398, 1505, *On the incidence of magnetic fields in slowly pulsating B, \beta Cephei and B-type emission-line stars*

Landstreet, J.D., Silaj, J., Andretta, V., Bagnulo, S., Berdyugina, S.V., Donati, J.-F., Fossati, L., Petit, P., **Silvester**, **J.**, Wade, G. A., 2008, A&A, 481, 2, 2008, *Searching for*

links between magnetic fields and stellar evolution. III. Measurement of magnetic fields in open cluster Ap stars with ESPaDOnS

Alecian, E., Catala, C., Wade, G. A., Donati, J.-F., Petit, P., Landstreet, J. D., Böhm, T., Bouret, J.-C., Bagnulo, S., Folsom, C., Grunhut, J., **Silvester**, **J.**, 2008, MNRAS, 385, 391, *Characterization of the magnetic field of the Herbig Be star HD200775*

Aurière, M., Wade, G.A., **Silvester, J.**, et al. 2007, A&A, 475, 1053, *Weak magnetic fields in Ap/Bp stars. Evidence for a dipole field lower limit and a tentative interpretation of the magnetic dichotomy*

Catala, C., Alecian, E., Donati, J.-F., Wade, G. A., Landstreet, J. D., Böhm, T., Bouret, J.-C., Bagnulo, S., Folsom, C., **Silvester**, **J.**, 2007, A&A, 462, 293, *The magnetic field of the pre-main sequence Herbig Ae star HD 190073*

Wade, G. A., Drouin, D., Bagnulo, S., Landstreet, J. D., Mason, E., **Silvester, J.**, Alecian, E., Böhm, T., Bouret, J.-C., Catala, C., Donati, J.-F., 2005, A&A, 442, 31, *Discovery of the pre-main sequence progenitors of the magnetic Ap/Bp stars?*

Ryabchikova, T., Wade, G. A., Aurière, M., Bagnulo, S., Donati, J.-F., Jeffers, S. V., Johnson, N., Landstreet, J. D., Lignières, F., Lueftinger, T., Marsden, S., Mouillet, D., Paletou, F., Petit, P., Reegen, P., **Silvester, J.**, Strasser, S., Toque, N., 2005, A&A, 429L, 55, *Rotational periods of four roAp stars*

TALKS High Resolution Spectropolarimetry of Ap stars using ESPaDOnS and Narval MAY 2011 - CASCA 2011, London, ON, Canada

On the incidence of magnetic fields in slowly pulsating B, β Cephei and B-type emission-line stars

AUG 2009 - I AU General Assembly, Rio de Janerio, Brazil

Next Generation mapping of the magnetic fields and chemical spots of Ap stars AUG 2009 - IAU General Assembly, Rio de Janerio, Brazil

Cartography of the magnetic fields and chemical spots of Ap stars JULY 2008 - Astropol 2008, La Malbaie, QC, Canada

Cartography of the magnetic fields and chemical spots of Ap stars MAY 2008 - CASCA 2008, Victoria, BC, Canada

Magnetic Doppler Imaging of Ap stars SEPT 2007 - CP/AP Workshop, Vienna, Austria

POSTERS High Resolution Stokes IQUV monitoring of Ap Stars using ESPaDOnS NOV 2010 - CFHT Users Meeting, Taipei, Taiwan

Magnetism in Pulsating B-Type Stars
MAY 2009 - CASCA 2009, Toronto, Canada

Magnetic observations of pulsating B and Be stars with ESPaDOnS at CFHT and Narval at TBL

NOV 2008 - IAU 259 Symposium on Cosmic Magnetism, Tenerife, Spain

Magnetic Doppler Imaging of Ap stars

MAY 2007 - CFHT Users Meeting, Marseille, France

An evolutionary study of magnetic Ap stars in 4 northern open clusters

JUNE 2005 - Element Stratification in Stars: 40 Years of Atomic Diffusion, Gers, France

SEMINARS

MAY 2010 - Uppsala University, Uppsala, Sweden

On the incidence of magnetic fields in slowly pulsating B, β Cephei and B- type emission-line stars

AUG 2009 - The Armagh Observatory, Northern Ireland

On the incidence of magnetic fields in slowly pulsating B, β Cephei and B-type emission-line stars

SEPT 2007 - Uppsala University, Uppsala, Sweden

Ap stars in open clusters and future high precision studies of field Ap stars

JAN 2007 - University of Hertfordshire, Hatfield, UK

Ap stars in open clusters and future high precision studies of field Ap stars

DEC 2006 - European Southern Observatory, Santiago, Chile

Ap stars in open clusters and future high precision studies of field Ap stars

OTHER EXPERIENCE

MAY 2008 - MAY 2009 - CFRC (Queen's Campus and Community Radio Station)

EXPERIENCE Sound Technician / Broadcaster (Volunteer)

Provided technical support for recording and broadcasting from public locations. For a series of live audio productions "the magic soundbox", acted as sound technician providing sound level monitoring during the live performances and providing assistance during equipment setup. Also host of both music and spoken word shows during this time.

SUMMER 2002, **2003 and 2004** - Wingham Wyatt Financial Services LTD, Essex, UK **Technical / Computer Support**

Supported the computer system, client database, e-mail and office software. Maintained the website. Updated client files and liaised with policy companies for client financial updates. Supported consultants and worked closely with software providers.

SCIENTIFIC REFERENCES

Dr Gregg Wade

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Dr Oleg Kochukhov

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