

# DEREK ALEXANDER WILLIAMS

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## COMPUTER SKILLS

CMS/Frameworks    CakePHP, Wordpress, Drupal  
Database            MySQL, Oracle, SQL Server, PostgreSQL  
Platforms            Mac, Linux, Windows, iPhone, Android  
Programming        Ansi C, Bash, C++, JAVA, Perl, PHP, UNICODE, VB  
Web                    HTML[5], XML, Apache, AJAX, jQuery, CSS[3],  
Bootstrap, REST, Web Services  
Methodologies      Responsive Design, OOP, RAD, Agile, SCRUM, UML

## PROFESSIONAL EXPERIENCE

Present                *Lead Developer [contractor] (LAMP, CakePHP, Bootstrap, jQuery)*  
Diamond L Consulting  
2012                    *Web Developer (Java, J2EE, Spring, GWT, jQuery, Wordpress)*  
Autodata Solutions Company  
2011                    *Web Developer (LAMP, jQuery, Wordpress)*  
Start Communications Inc.  
2007-2009            *Developer (Ansi C, C++, I18n, Unicode, SMTP, TCP/IP),*  
Rapid Development Group, Afilias Canada  
Summer 2005         *Database/Software Analyst (LAMP),*  
Linguistics Research Laboratory, UWO  
Summer 2004         *Research Assistant (Super Computing, FORTRAN, C, OpenGL),*  
SHARCnet, UWO  
Summer 2003         *Database Developer (LAMP, C, Perl),*  
LRGC, John P. Robarts Research Institute  
Summer 2002         *Web Designer,*  
Department of Applied Mathematics, UWO  
2000-2002            *GIS Applications Programmer (C++, STL, MFC, VB, ASP),*  
Keigan Systems Inc.  
Co-op 2000            *Web Developer (JSP, Javascript), TD Canada Trust*

## **EDUCATION**

- 2010-2011 Bachelors of Education,  
*Intermediate Senior Mathematics & Physics*,  
University of Western Ontario (UWO)
- 2001-2006 Bachelors of Science (Honors),  
*Applied Mathematics & Philosophy*, UWO
- 1999-2000 College Diploma,  
*Computer Programmer: Software Engineering*, Fanshawe College

## **TEACHING EXPERIENCE**

- 2009 - Present *Private Tutor*,  
University Mathematics & Statistics Courses,  
LondonTutor.ca
- Spring 2011 *Teacher Candidate*,  
MFM1P - Grade 9 Math (Applied),  
MEL3E - Grade 11 Math (Workplace),  
SPH3U & SPH4C - Grade 11, 12 Physics (Credit Recovery)  
H. B. Beal Secondary School
- Spring 2011 *Teacher Candidate*,  
MFM1D - Grade 9 Math (Academic),  
MCF3M - Grade 11 Functions & Applications (Mixed),  
MCV4U - Grade 12 Calculus & Vectors (University),  
A. B. Lucas Secondary School
- Fall 2010 *Teacher Candidate*,  
SNC1P - Grade 10 Science (Applied),  
SPH3U - Grade 11 Physics (University),  
Regina Mundi Catholic College
- Fall 2010 *Teacher Candidate*,  
MFM2P - Grade 10 Math (Applied),  
A. B. Lucas Secondary School
- Winter 2010 *Graduate Teaching Assistant*,  
Advanced Calculus (CALC 1300),  
Department of Applied Math, UWO
- Fall 2009 *Graduate Teaching Assistant*,  
Calculus (CALC 1000),  
Department of Applied Math, UWO

## **PRIVATE TUTORING EXPERIENCE (2009-Present)**

Secondary School    MFM2P, MCR3U, MDM4U, MHF4U  
                              SNC1D, SNC1P, SPH3U, SPH4U  
University            CALC1000, CALC1301  
                              MATH1225, MATH1228, MATH1229  
                              STATS1024, STATS2035, STATS2857, STATS2858  
                              PHYS1301, PHYS1302

## **VOLUNTEER EXPERIENCE**

Spring 2011            *Activities Supervisor/Curriculum Designer,*  
                              Lower Thames Conservation Authority  
Spring 2011, 2012    *Science Fair Judge,* London District Science & Technology Fair  
Fall 1999              *Activities Supervisor,* Memorial Boys & Girls Club

## **PROFESSIONAL DEVELOPMENT**

2011                    Native Education Day, UWO  
2008                    Communication Skills: *Results Through Collaboration,*  
                              Learning Tree International

## **GRADUATE COURSEWORK, UWO (2009-2010)**

APPLMATH 9566    *Numerical Solutions to PDE,* UWO  
APPLMATH 9578    *Mathematics of Financial Options,* UWO  
STATS 9864         *Statistical Computing,* UWO  
STATS 3520         *Financial Modeling,* UWO

## **PUBLICATIONS**

2009                    *International Patent Application,*  
                              Alternate e-mail address configuration, WIPO WO2009111870

## **MEMBERSHIP**

*OAME Member*        Ontario Association for Mathematics Education  
*STAO Member*        Science Teachers Association of Ontario  
*Actuary Candidate*    Society of Actuaries

## **AWARDS**

2009                    Western Graduate Research Scholarship (WGRS) -  
                              *Applied Mathematics,* UWO  
2009                    Western Graduate Scholarship - *Science* (WGS), UWO  
2005                    COMAP Mathematical Contest in Modeling (MCM)

## PRESENTATIONS & SEMINARS

- 2008                    *Email Interoperability Workshop*, IETF 72 (Dublin)  
2007                    *International Email Product Demo*, IETF 69 (Chicago)  
2006                    *Molecular Dynamics of H<sub>2</sub>O*, Department of Applied Math, UWO

## REFERENCES

Tom Zentner  
*Math/Geography Teacher*  
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