# Titus deLaFayette Winters

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## Education

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|---|---|
| University of California, Riverside | 2002–2006 |

PhD in Computer Science

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| University of California, Riverside | 2002–2004 |

MS in Computer Science

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| Harvey Mudd College | 1998–2002 |

BS with Distinction, Honors in Computer Science

## Industry Experience

- JetHead Development - *Network Media Architect (January 2009 - Present)*
  Technical management for team of up to 6 engineers developing thin-client UPnP-based network media software. Protocol co-designer for RVU RUI/AV protocol. Continued software development for satellite television/network media hybrid set top boxes.

- JetHead Development - *Technical Lead (July 2006 - January 2009)*
  Tech lead and software engineer developing software for Linux-based set-top boxes for satellite television systems. Primary designer and developer for C++ UPnP library.

- Aerospace Corporation - *Associate Member of Technical Staff (May 2000 - December 2002)*
  Research and support tasks for the Trusted Systems Laboratory including security evaluation of commercial products, research and prototyping of network and OS security systems.

## Teaching

**UC Riverside**, Associate In (Lecturer)                                Summer 2003 – Spring 2006

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| Wi06 | CS 179k | Senior Design Project in Software Engineering |
| Fa05, Wi05, Sp06 | CS 153 | Design of Operating Systems |
| Su05, Su04 | CS 141 | Intermediate Data Structures & Algorithms |
| Su05, Su04, Su03 | CS 14 | Introduction to Data Structures & Algorithms |
| Sp04 | CS 164 | Computer Networks |

## Honors & Awards

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| UCR CS&E Department Outstanding Teaching Assistant Award | 2003 |
| HMC CS Class of '94 Award for Outstanding Course Work, Research, and Service. | 2002 |
| Harvey Mudd College CS Department Honors | 2002 |
| ACM ICPC Southern California Regional - 4th Place | 2001 |
| Harvey Mudd College Computer Science Clinic Award | 2000 |

# Research Experience

- *The Archive* - UCR, Spring 2002 - Present
  Developed tools for data gathering and applied data mining/unsupervised learning techniques for discovering information on what students are learning.
  **Advisors**: Dr. Tom Payne *thp@cs.ucr.edu*, Dr. Christian Shelton *cshelton@cs.ucr.edu*

- *TinkerNet* - HMC, Fall 2001 - Present
  Developed a laboratory environment for teaching computer networks from the link-layer to up to the application layer.
  **Advisor**: Dr. Mike Erlinger *mike@cs.hmc.edu*

- *The Dragon Intrusion Deflection System* - Aerospace Corporation - Summer 2000 - Fall 2002
  Developed a prototype "Intrusion Deflection System" capable of transparently redirecting an attacker to a honeypot while preserving as much of his existing connection state as possible. Supervised development on this project as leader of a 3 person research team.
  **Supervisors**: Ranwa Haddad *haddad@aero.org*, Charlie Lavine *lavine@aero.org*

- *Tree-Based Statistical Algorithms* - HMC, Fall 2000 - Spring 2002
  Implemented and refined experimental algorithms for the development of Decision Trees. My team's work focused on implementation of a Genetic Algorithm and a K-Step Look-ahead (greedy) algorithm for generating such structures.
  **Advisor**: Dr. Elizabeth 'Z' Sweedyk *z@cs.hmc.edu*

- *Melli* - The Aerospace Corporation - Summer 1999 - Summer 2000
  Demonstrated weaknesses in commonly available commercial Honeypot systems, and developed a Linux-based honeypot capable of keystroke logging, process hiding, and file protection.
  **Supervisor**: Ranwa Haddad *haddad@aero.org*

# Service Activities

- *UCR CS ACM Programming Contest Coach* - Fall 2004 - Present. Organizer and coach for UCR's teams for the International Collegiate Programming Contest.
  http://www.cs.ucr.edu/~titus/acmProblems/

- *UCR CS Technical Seminar Series* - Organizer and one of the prime presenters at the Technical Seminar Series.
  http://www.cs.ucr.edu/~titus/techsem.html

# Hobbies & Interests

Photography, cooking, running, music, modern programming languages, travel.

*References available upon request.*