

## David Dakota Blair

---

|                         |   |  |
|-------------------------|---|--|
| CONTACT INFORMATION     | 909 St Johns Pl Apt 3L<br>Brooklyn, NY 11216  | Voice: (903) 235-3248<br>E-mail: dakota@tensen.net |
| RESEARCH INTERESTS      | Number theory, additive combinatorics, integer partitions   |  |
| EDUCATION               | <b>The CUNY Graduate Center</b> , New York, NY<br>Ph.D., Mathematics, (in progress)<br>M.Phil., Mathematics, February 2014<br><br><b>Texas A&amp;M University</b> , College Station, TX<br>M.S., Mathematics, May 2007 <ul style="list-style-type: none"><li>• Advisor: Professor Sue Geller</li></ul> B.S., Mathematics, December 2006 <ul style="list-style-type: none"><li>• <i>Cum Laude</i>, with Honors in Mathematics</li></ul>  |  |
| AWARDS                  | <b>The CUNY Graduate Center</b> <ul style="list-style-type: none"><li>• Doctoral Student Research Grant 2012</li><li>• CUNY Teaching Fellowship, Fall 2009 to Spring 2011, Spring 2014</li></ul> <b>Texas A&amp;M University</b> <ul style="list-style-type: none"><li>• Lechner Scholarship, 2003</li></ul> <b>Texas Interscholastic League Foundation Scholarship</b> <ul style="list-style-type: none"><li>• Nelda C. &amp; H.J. Lutcher Stark Foundation, 2003</li></ul>  |  |
| ACADEMIC EXPERIENCE     | <b>Texas A&amp;M University</b> , College Station, TX<br><i>Graduate Student</i> <span style="float: right;"><b>Spring 2007</b></span><br><i>Honors Help Session Instructor</i> <span style="float: right;"><b>Fall 2006</b></span> <ul style="list-style-type: none"><li>• Aided students with homework and lab assignments for Differential Equations.</li></ul> <b>University of North Carolina, Greensboro</b> , Greensboro, NC<br><i>Undergraduate Researcher</i> <span style="float: right;"><b>Summer 2005</b></span> <ul style="list-style-type: none"><li>• Participated in Algorithmic Combinatorics on Words, an REU.</li><li>• Generalized fundamental results on monoids to partial words.</li><li>• Presented work at MFCS 2006 in Stará Lesná, Slovakia.</li></ul> |  |
| PUBLICATIONS            | F. Blanchet-Sadri, D. Dakota Blair, Rebeca V. Lewis. Equations on Partial Words. RAIRO-Theor. Inf. Appl. 43, 23-39 (2009)   |  |
| PROFESSIONAL EXPERIENCE | <b>New York University</b> , New York, NY<br><i>Adjunct</i> <span style="float: right;"><b>Spring 2014</b></span> <ul style="list-style-type: none"><li>• Taught Introduction to Computer Programming.</li></ul>  |  |

**City University of New York**, New York, NY

*Adjunct*

**Fall 2009 to Spring 2011, Spring 2014**

- Taught Precalculus and Quantitative Reasoning at **New York City College of Technology**.
- Taught Statistics, Introduction to Mathematics and remedial mathematics courses at **Borough of Manhattan Community College**.

**Freelancers Union**, New York, NY

*Software Engineer*

**June 2011 to January 2014**

- Designed new more efficient onboarding procedures using Vagrant.
- Developed customer-facing and intranet Django (Python) web apps.
- Automated processing (Bash, Python), loading and auditing (Postgres) of PHI and financial data in compliance with HIPAA.
- Documented legacy data loads. Updated procedures to reduce risk.

**New York Magazine**, New York, NY

*Junior Software Engineer*

**August 2007 to August 2009**

- Maintained Analytics implementation (JavaScript) for Omniture, ComScore, Quantcast, Nielsen.
- Facilitated data transformation (XSLT) from legacy systems.
- Maintained various technical documentation.

**Complete Printing and Publishing**, Carthage, TX

*Programmer*

**April 2002 to August 2006**

- Implemented online user interfaces for company data for employees, customers.
- Developed products that replaced initial paperwork for orders and decreased turn around time for orders from repeat customers.

SERVICE

President of Texas A&M chapter of Pi Mu Epsilon, **Texas A&M University**, 2006

- Organized and arranged meetings.
- Coordinated efforts for student outreach programs.
- Redesigned website to conform to web standards and enhance maintainability.

Academic UIL Instructor, **Cypress Grove Intermediate School**, 2006

- Introduced middle school students to mathematics by preparing for UIL math events including Number Sense, Calculator Applications and the general mathematics test.

Mitchell Symposium on Observational Cosmology, 2004

- Undergraduate Student Member of Organizing Committee

SEE Math Texas A&M University, 2004

- Introduced middle school students to cryptography, graph theory, formal logic and computer programming.

LANGUAGES

**Python, JavaScript, SQL, L<sup>A</sup>T<sub>E</sub>X, Bash, Puppet**, Ruby, Java, XSLT, Perl, PHP also proficient with XSL, XML, HTML5, PostScript, Mathematica, Matlab, Fortran, C, C++, Maple, CSS, gnuplot

FRAMEWORKS

**Django, jQuery, Sage**, Bootstrap, PARI, MAGMA

TOOLS

**Git, Vagrant**, Puppet, Jira, Jenkins, MediaWiki, Pingdom, Salesforce