

Jonathan Devor

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EXPERIENCE:

- 2016 - current* **Algorithm Developer, RoadMetric**, Jerusalem, Israel
Developing video analysis tools for automatically identifying traffic offenders.
- 2016* **Data Scientist, Forter**, Tel-Aviv, Israel
Built an interactive tool for evaluating predictive clues of real-world on-line fraud.
- 2014 - 2015* **Senior Quantitative Researcher, WorldQuant**, Ramat Gan, Israel
Constructed novel investment strategies for the U.S. and international markets.
- 2012 - 2013* **Postdoc in Astronomy**, Tel-Aviv University, Israel
Developed pipelines for the automated analysis of stellar variability time series.
- 2008 - 2011* **Software Engineer, Cisco Systems**, San Jose, CA
Created methods that enhance the quality and reliability of internet multicast video.
Member of the IPTV Visual Quality Experience (VQE) development team.
- Summer 2004* **Graduate Research Assistant, Los Alamos National Laboratory**, Los Alamos, NM
Developed automated machine-learning classification methods for stellar light curves.
- 1998 - 2001* **Software Engineer / Consultant, Inspectron Corp.**, Chelmsford, MA
Designed and created embedded software that performs ultra-fast optical character recognition (OCR) and bar-code reading.
- 1995 - 1998* **Signal Intelligence Systems Developer**, Intelligence Corps, Israel Defense Force

EDUCATION:

- 2008* **Ph.D. in Astronomy**, Harvard University, Center for Astrophysics
- 2004* **M.A. in Astronomy**, Harvard University, Center for Astrophysics
- 2002* **B.S. in Physics and Computer Science**, The Hebrew University of Jerusalem
(graduated Magna Cum Lauda ; average grade: 94)
- 1996* **Signal Intelligence (SigInt)** training program, Israel Defense Force, Intelligence Corps

TECHNICAL SKILLS:

Programming Languages: C/C++ (extensive), Java, Perl, Python, Matlab, Derive, IDL
Development Experience: algorithms, data mining/analysis, simulations, optimization, visualizations, signal processing (DSP), numerical integration, testing models.

PRIZES & AWARDS:

- Recognized as a **Competent Communicator** by Toastmasters International (2010)
- Team (VQE) won the **Pioneer Award** for core technology, the highest distinction given by Cisco Systems to a product development team, San Jose, CA (2009)
- 2nd place at the **U.S. Open RoboCup**, Atlanta, GA. Built 5 autonomous robots that play soccer together, as part of the Harvard-MIT RFC-Cambridge team (2006)
- Certificate of **Distinction in Teaching**, Harvard University (2003-2004)
- 6th plc. at the 3rd Int'l Collegiate **Dragon Boat Championship**, Tianjin, China (2003)
- Bronze medal at the 26th International **Physics Olympiad**, Canberra, Australia (1995)
- 3rd plc. in the 15th Int'l **Mathematics** Contest, Technion- Israel Inst of Tech. (1995)
- Schulman Prize in **Physics**, Hebrew University High School, Jerusalem, Israel (1995)

SELECTED
PUBLICATIONS:
(peer reviewed)

- Prsa A, Guinan, E.F., Devlin E.J., Engle S.G., DeGeorge M., McCook G.P., Maurone P.A., Pepper J., James D., Bradstreet D.H., Alcock C.R., **Devor J.**, Seaman R., Zwitter T., Long K., Wilson R.E., Ribas I., and Gimenez A., Fully Automated Approaches to Analyze Large-Scale Astronomy Survey Data, *Astro2010: The Astronomy and Astrophysics Decadal Survey*, 25 (2009)
- Devor J.**, On the Development and Applications of Automated Searches for Eclipsing Binary Stars, Ph.D. Thesis, Harvard University (2008)
- Devor J.**, Charbonneau D., Torres G., Blake C.H., White R., Rabus M., O'Donovan F.T., Mandushev G., Bakos Á.G., Fürész G., and Szentgyorgyi A., T-Lyr1-17236: A Long-Period Low-Mass Eclipsing Binary, *The Astrophysical Journal*, 687, 1253 (2008)
- Devor J.**, Charbonneau D., O'Donovan F.T., Mandushev G., and Torres G., Identification, Classifications, and Absolute Properties of 773 Eclipsing Binaries Found in the TrES Survey, *The Astronomical Journal*, 135, 850 (2008)
- Devor J.** and Charbonneau D., MECI: A Method for Eclipsing Component Identification, *The Astrophysical Journal*, 653, 647 (2006)
- Devor J.** and Charbonneau D., A Method For Eclipsing Component Identification in Large Photometric Datasets, *Astrophysics and Space Science*, 304, 351 (2006)
- Devor J.**, Solutions for 10,000 Eclipsing Binaries in the Bulge Fields of OGLE II Using DEBiL, *The Astrophysical Journal*, 628, 411 (2005)
- Mochejska B., Stanek K., Sasselov D., Szentgyorgyi A., Bakos Á.G., **Devor J.**, Hradecky V., Marrone D., Winn J., Zaldarriaga M., Planets in Stellar Clusters Extensive Search. III. A search for transiting planets in the metal-rich open cluster NGC 6791, *Astronomical Journal*, 129, 2856 (2005)
- Dekel A., Arad I., **Devor J.** and Birnboim Y., Dark-halo cusp: Asymptotic Convergence, *The Astrophysical Journal*, 588, 2, 680 (2003)
- Dekel A., **Devor J.** and Hetzroni G., Galactic halo cusp-core: Tidal compression in mergers, *Monthly Notice of the Royal Astronomical Society*, 341, 1, 326 (2003)
- Dekel A., **Devor J.** and Arad I., Galactic halo cusp versus core: Tidal effects in mergers, *A New Era in Cosmology, ASP Conference Proceedings, Astronomical Society of the Pacific*, 283, 307 (2002)

PATENTS:

- Devor J.** and Kirkpatrick S., Method and device for measuring an electrical current flowing in a wire and/or the wire's location, Hebrew University, U.S provisional application 60/434,636 (accepted 2003)
- Zhang X., Linares G., **Devor J.**, Unni M., and Berquist K., Method for embedding non-intrusive encoded data in printed matter, Inspectron Corp., U.S Patent 6,354,630 (accepted 2002)

TEACHING:

- 2005 - 2008 Pforzheimer/Harvard house tutor (non-resident)
- 2005 - 2006 Head teaching fellow at the Harvard College: Matter in the Universe
- 2005 Science project mentor at the Boston Latin High School
- 2003 - 2004 Teaching fellow at the Harvard College: Observing the Sun and the Stars
- 2002 Scientists Teaching Science

LANGUAGES: Fluent in both English and Hebrew

AFFILIATIONS
& INTERESTS:
(current and past)

- Home page: www.jdevor.com
- Member of Toastmasters International
- Member of the American Astronomical Society
- Member of the American Association for the Advancement of Science
- Other interests include hiking, traveling, scuba diving, and creating/solving math puzzles