Curriculum Vitae Niv Sarig

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Personal details

Date of birth:	20th of February, 1977.	Gender:	Male.
Citizenship:	Israeli\German.	Place of birth:	Hibat Zion, Israel.
Languages' skills:	Hebrew-mother tongue, English-excellent.	Place of residence:	Kfar Saba, Israel

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Employment experience

12/11–present	Mathematician - **Path finding team, CTO group, Nova measuring instruments, Rehovot, Israel**: Calculations speedup, Interpolation in libraries including using Neural networks architectures, A-priori error estimation, Multi-dimensional numerical integration, Optical\physical modeling and simulations, Scientific\industrial paper publication, General Mathematical expert support.
12/11–present	Lecturer - **Weizmann institute of science, Rehovot, Israel**: Advanced Mathematical courses for Graduate students. Partial differential equations, Complex Analysis, Sturm Liouville Thoery, Basic Algebra and more.
11/96–4/00	Lieutenant - **Army service: Platoon commander, Education corps, IDF**.

Education

Academic skills	**Theoretic mathematical research**, Numerical simulations programming, **Best teaching skills** and much experience, Closed form analytic calculations, **signal, picture and data processing** using analytic, numeric and algebraic tools.
10/04–12/11	Graduate studies in Mathematics: **Weizmann institute of science, Department of Mathematics, Rehovot, Israel**. Ph.D Thesis: *Algebraic reconstruction of "shift generated" signals from integral measurements.*; Advisor: Prof. Y. Yomdin. M.SC. Thesis: *Robust Reconstruction of Nonlinear Models Parameters From Measurement Data*; (final grade 98)

09/01–09/04	Undergraduate Studies in Mathematics and Physics at the **Hebrew University in Jerusalem, Israel**. (final grade 92)

Programming skills

Matlab/Octave	Experienced
C++/Python,	Basic/eager to develop expertise.
Windows OS and Office softwares	Experienced
LaTeX editors - Winedt, BaKoMa	Experienced.

References

These persons are familiar with my professional qualifications and my character:

Dr. Gilad Barak	Team manager, Nova measuring instruments
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Dr. Shay Wolfling	CTO, Nova measuring instruments
Phone: +972-73-2295816	Email:shay-w@novameasuring.com
Prof. Yosef Yomdin	Thesis advisor
Phone: +972-8-9342921	Email:yosef.yomdin@weizmann.ac.il

List of publications

1. Archie C.; Sarig N.; Sendelbach M. et.al. *Effect of measurement error budgets and hybrid metrology on qualification metrology sampling*, Proceedings of SPIE Vol. 9050, 90501M (2014).

2. Batenkov D.; Sarig N.; Yosef Yomdin. *Decoupling of Fourier Reconstruction System for Shifts of Several Signals*, Proc. of Sampling Theory and Applications (SAMPTA) , 2013.

3. Batenkov D.; Sarig N.; Yosef Yomdin. *Algebraic reconstruction of piecewise-smooth functions from integral measurements*, Functional Differential Equations, 19(1-2), 2012, pp.13-30.

4. Ettinger B.; Sarig N.; Yomdin Y. *Linear versus non-linear acquisition of step-functions*, J. Geom. Anal. 18 (2008), no. 2, 369–399. 41Axx. arXiv:math/0701791v2 [math.CA].

5. Sarig N.; Yomdin Y. *Signal acquisition from measurements via non-linear models*, C. R. Math. Acad. Sci. Soc. R. Can. 29 (2007), no. 4, 97–114. arXiv:0810.5206v1 [math.CA].