

CURRICULUM VITAE

PERSONAL INFORMATION

NAME	Nadya Gorlova
YEAR OF BIRTH	1976
CITIZENSHIP	Ukraine
ADDRESS	Department of Astronomy, University of Florida, 211 Bryant Space Science Center, P.O. Box 112055, Gainesville FL 32611
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EDUCATION

GRADE	UNIVERSITY	YEAR
Ph. D. in Astronomy	University of Arizona	2006
B. Sc. in Astronomy	Odessa State Univ. (Ukraine)	1998

EMPLOYMENT

Postdoctoral Associate	University of Florida	2006-current
Teaching Assistant	University of Arizona	2002-2003
Research Assistant	University of Arizona	2000-2006
Research Assistant & Lecturer	Odessa Astron. Observatory, Odessa State University	1997-2000

RESEARCH EXPERIENCE**UNDERGRADUATE RESEARCH (ODESSA STATE UNIV.)**

Determination of the physical parameters and chemical abundances for warm supergiant stars. Calibration and interpretation of the optical echelle spectra.

B. Sc. Diploma Thesis:

“On the Chemical Abundances of Six Yellow Supergiants in Clusters and Associations”

GRADUATE RESEARCH (UNIVERSITY OF ARIZONA)

Characterization of the temperature and gravity-sensitive features in the near-IR spectra of low-mass stars and brown dwarfs. Observation, reduction and interpretation of the low-resolution near-IR spectra.

Spectral variability of pulsating supergiants. Identification of the mass-loss and shock-related phenomena from correlations of optical and IR spectra with light curves.

Study of debris disk evolution with *Spitzer*.

Measurement of disk fraction as a function of age based on the 3-24 micron photometry of open stellar clusters. Evaluation of host stars cluster membership from low-resolution optical spectroscopy.

Search for evidence of the catastrophic protoplanetary collisions.

Ph. D. Thesis:

“Debris Disks in Open Stellar Clusters”

POSTDOCTORAL RESEARCH (UNIVERSITY OF FLORIDA)

Determination of masses, ages, and accretion rates for low-mass objects in young embedded stellar clusters, by means of NIR spectroscopy and imaging (FLAMINGOS-KPNO Molecular Cloud Survey, PI: E. Lada). Combining this information with the *Spitzer* Legacy surveys to search for correlations of the spectral energy distribution types with the age and spatial location of sources, in order to understand the star formation history in the cloud.

OBSERVATION / DATA REDUCTION EXPERIENCE

SCIENCE	INSTRUMENT	TELESCOPE	COMMENTS	YEAR
echelle sp. of Cepheids & non-variable supergiants	LYNX	SAO (Russia)	data red. only	1996- 2000
near-IR spectroscopy of Brown Dwarfs	Fspec	MMT	2 obs. runs & data red.	2001- 2002
near-IR spectroscopy of stellar & substellar objects	CorMass	VATT	5 obs. runs & data red.	2003- 2004
near-IR spectroscopy of cool supergiants	SpeX CGS4	IRTF UKIRT	data red. only	2004 2004
optical multi-slit sp. of stars in open cluster	IMACS	Magellan	2 obs. runs & data red.	2005
mid-IR photometry of stars / disks in clusters	MIPS	Spitzer	data red. only	2004- 2006
NIR multi-slit sp. of embedded young clusters	FLAMINGOS	KPNO 4m	1 obs. run & data red.	2006- current
optical echelle sp. of debris disk host stars	UVES	VLT	1 run in Q-mode	2007

COMPUTER SKILLS

Fortran 77, IDL, SuperMongo, IRAF

TEACHING EXPERIENCE

Lecturer for the “General Astronomy” course for students of the Physics Teaching Dept., Odessa State Univ. 1997-2000

Teaching assistant for advanced natural sciences course “Stars”, with Prof. G. Schmidt, Univ. of Arizona 2002

Teaching assistant for the natural sciences general education course “The Physical Universe”, with Prof. A. Zabludoff, Univ. of Arizona 2003

PEER REVIEW

1 paper in the Astrophysical Journal, 2008

AWARDS

Student poster prize at the “Cores, Disks, Jets & Outflows” international conference in Banff, Canada 2004

M. F. McCarthy 2 year scholarship from Vatican Observatory 2000

B. Sc. in astronomy with Honors from Odessa State Univ. 1998

N. N. Bogolyubov 1 year scholarship from Odessa State Univ. 1997

REFERENCES

Elizabeth Lada
George Rieke
Michael R. Meyer
James Muzerolle

BIBLIOGRAPHY

FIRST-AUTHOR PUBLICATIONS

“Near-IR Spectroscopic Survey of The Serpens Cloud Main Core”

Gorlova, N., Lada, E., & Steinhauer, A.
To be submitted to ApJ in 2008¹

“Debris Disks in NGC 2547”

Gorlova, N., Balog, Z., Rieke, G., Muzerolle, J., Su, K., Ivanov, V., & Young, E. T.
2007 ApJ 670, 516

“Spitzer 24 micron Survey of Debris Disks in the Pleiades”

Gorlova, N., Rieke, G., Muzerolle, J., Stauffer, J., Siegler, N., Young, E. T., & Stansberry, J. H.
2006 ApJ 649, 1028

“On the CO Near-IR Band and the Line Splitting Phenomenon in the Yellow Hypergiant Rho Cas”

Gorlova, N., Lobel, A., Burgasser, A., Rieke, G., Ilyin, I., & Stauffer, J. R.
2006 ApJ 651, 1130

“New Debris-Disk Candidates: 24 Micron Stellar Excesses at 100 Million years”

Gorlova, N., Padgett, D., Rieke, G., Muzerolle, J., Morrison, J., Gordon, K., Engelbracht, C., Hines, D., Hinz, J., Noriega-Crespo, A., Rebull, L., Stansberry, J., Stapelfeldt, K., Su, K., & Young, E.
2004 ApJS 154, 448

“Gravity Indicators in the Near-Infrared Spectra of Brown Dwarfs”

Gorlova, N., Meyer, M., Rieke, G., & Liebert, J.
2003 ApJ 593, 1074

¹ Draft available at <http://astro.ufl.edu/~ngorlova/serpens.pdf>

CO-AUTHORED PUBLICATIONS

“Near and Mid-IR Photometry of the Pleiades, and a New List of Substellar Candidate Members”

Stauffer, J. R., Hartmann, L., Fazio, G., Allen, L., Patten, B., Lowrance, P., Hurt, R., Rebull, L., Cutri, R., Ramirez, S., Young, E., Rieke, G., Gorlova, N., Muzerolle, J., Slesnick, K., & Skrutskie, M.
2007 ApJ, in press

“Spitzer 24 micron Observations of Open Cluster IC2391 and Debris Disk Evolution of FGK Stars”

Siegler, N., Muzerolle, J., Young, E. T., Rieke, G. H., Mamajek, E., Trilling, D., Gorlova, N., & Su, K. Y. L.
2007 ApJ 654, 580

“Spectrum of a Habitable World: Earthshine in the Near-Infrared”

Turnbull, M., Traub, W., Jucks, K., Wolf, N., Meyer, M., Gorlova, N., Skrutskie, M., & Wilson, J.
2006 ApJ 644, 551

“Decay of Planetary Debris Disks”

Rieke, G., Su, K., Stansberry, J., Trilling, D., Bryden, G., Muzerolle, J., White, B., Gorlova, N., Young, E., Beichman, C., Stapelfeldt, K., & Hines, D.
2005 ApJ 620, 1010

“High Precision Effective Temperatures for 181 F-K Dwarfs from Line-depth Ratios”

Kovtyukh, V., Soubiran, C., Belik, S., & Gorlova, N.
2003 A&A 411, 559

“Line Profile Variations in Classical Cepheids. Evidence for Non-radial Pulsations?”

Kovtyukh, V., Andrievsky, S., Luck, R., & Gorlova, N.
2003 A&A 401, 661

“Precise Temperatures of Classical Cepheids and Yellow Supergiants from Line-Depth Ratios”

Kovtyukh, V. & Gorlova, N.

2000 A&A 358, 587

“The Lithium-rich Supergiant HD 172365”

Andrievsky, S., Gorlova, N., Klochkova, V., Kovtyukh, V., & Panchuk, V.

1999 AN 320, 35

POSTER PRESENTATIONS

“Adding Spectroscopic Dimension to the Study of the Young Embedded Clusters: Serpens Molecular Cloud”

Gorlova, N., Lada, E. & Steinhauer, A.

213th Meeting of The American Astronomical Society
(Long Beach, CA Jan 4-8 2009)

“Spectroscopic Update on The ‘Moon star’”

Gorlova, N., Kovtyukh, V., Lobel, A., & Rieke, G.

New Light on Young Stars: Spitzer's View of Circumstellar Disks
5th Spitzer Research Conference
(Pasadena, CA Oct 26-30 2008)

“FLAMINGOS NIR Survey of the Serpens Molecular Cloud”

Gorlova, N., Lada, E., Steinhauer, A., Stolte, A., Roman-Zuniga, C., & FLAMINGOS team

From Stars to Planets, Research Conference
(Gainesville, FL April 11-14 2007)

“Spitzer Survey of debris Disks in the Pleiades”

Gorlova, N., Rieke, G., Muzerolle, J., Stauffer, J. & MIPS team

Origins of Solar Systems, Gordon Research Conference
(New London, CT June 26-July 1 2005)

“The Origin and Variability of the CO Near-IR Band in the Yellow Hypergiant Rho Casseopeiae”

Gorlova, N., Lobel, A., Burgasser, A., Rieke, G., & Woolf, N.
205th Meeting of The American Astronomical Society
(San Diego, CA Jan 9-13 2005)

“New Debris Disk Candidates in the 100 Myr-old Cluster M47”

Gorlova, N., Padgett, D., Rieke, G., Muzerolle J., & the MIPS team
2nd Terrestrial Planet Finder/Darwin International Conference: Dust
Disks and the Formation, Evolution and Detection of Habitable
Planets (San Diego, CA July 26-29, 2004)

“The Outburst History of the YSO Associated with McNeil’s Nebula from Near-IR & Optical Spectra”

Gorlova, N., Muzerolle, J., Skrutskie, M., Wilson, J., Williams, K., & Meyer, M.

Cores, Disks, Jets & Outflows in Low & High Mass Star Forming
Environments: Observations, Theory and Simulations, International
Conference (Banff, Canada July 12-16, 2004)

“Evolution of Brown Dwarf Atmospheres: Investigating Physical Parameters from Near-IR Spectra”

Gorlova, N., Meyer, M., Rieke, G., & Liebert, J.
IAU Symposium #211: Brown Dwarfs
(Kona, HA May 20-24, 2002)

“Probing Gravity in Brown Dwarfs from NIR Spectral Features”

Gorlova, N., Meyer, M., Liebert, J., & Rieke, G.
12th Cambridge Workshop on Cool Stars, Stellar Systems, and the
Sun (Boulder, CO July 30 - Aug 3, 2001)

PRESS RELEASE

“Astronomers Say Moons Like Ours Are Uncommon”

Spitzer Space Telescope/NASA press release Nov 20 2007

Based on publication in the *Astrophysical Journal* by Gorlova et al.
(2007 ApJ 670, 516)

http://www.nasa.gov/mission_pages/spitzer/news/spitzer-20071120.html

COVERAGE IN THE POPULAR MEDIA

“Earth's Moon is a rare oddball”

MSNBC News, D. Mosher

<http://www.msnbc.msn.com/id/21902989/>

“Earth's Moon is 'cosmic rarity’”

BBC News, P. Rincon

<http://news.bbc.co.uk/2/hi/science/nature/7104558.stm>

“Moons like Earth's are few and far between”

New Scientist Magazine, D. Shiga

<http://space.newscientist.com/article/dn12947-moons-like-earths-are-few-and-far-between.html>

“Earth's Moon: Once in a Blue Moon”

Discovery Channel, I. Klotz

<http://dsc.discovery.com/news/2007/11/26/moon-earth-space.html>