Curriculum Vitae.

Kenji FUKAYA

Personal Details

Nationality	Japan	
Date of birth	12th March 1959	
Affiliation	Department of Mathematics, Graduate school of Science,	
	Kyoto University	
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Education

1978 - 1981	University of Tokyo (under graduate)
1982 - 1983	Graduate School, University of Tokyo, Department of Mathematics
1986 March	Degree of Doctor in Science, University of Tokyo (Thesis [4])

Academic Employment

1983–1986, University of Tokyo, Research Assistant 1987–1990 (June), University of Tokyo, Associate Professor 1994- Kyoto University, Professor

Other Professional Activities

Chairman of the Math. Committee of the Science Council of Japan. (2006 -) Member of the Research Center of the Science System (in Japanese Society of Promotion of Science). (2004 -) Executive board member of Math. Society of Japan. (1996 - 2000, 2005 -)

Editorial board member of

Differential Geometry and its application, Asian Journal of Math., Journal of Differential Geom., Geometriae Dedicata, Journal of Math. Kyoto University.

Area of mathematical research

Geometry (Symplectic Geometry, Gauge Theory, Riemannian Geometry, etc.).

Award

Geometry prize (1989),	Spring Prize (Math. Soc. of Japan) (1994)
Inoue Prize for Science (2002) ,	Japan Academy Award (2003).

Selected list of Publications

- A finiteness theorem for negatively curved manifolds, J. Differential Geometry 20 (1984) 497 - 521.
- 2. Collapsing of Riemannian manifolds and Eigenvalues of Laplace operators, Inventiones Mathematicae 87 (1987) 517-557 .
- Collapsing Riemannian manifolds to ones of lower dimension, J. Differential Geom. 25 (1987) 139 - 156.
- 4. A boundary of the set of the Riemannian manifolds with bounded curvatures and diameters, J. Differential Geom. 28 (1988) 1-21.
- Almost nonpositively curved manifolds, (with T.Yamaguchi), J. Differential Geom. 33 (1991) 61-90.
- Collapsing Riemannian manifolds and its application, in the Proceeding of International Congress of Mathematics Kyoto (1991), 491 - 500.

- 7. Nilpotent structures and invariant metrics on collapsed manifolds, (with J.Cheeger and M.Gromov) Journal of American Mathematical Society 5 (1992) 327 372.
- Floer homology for oriented 3-manifolds in "Aspects of Low Dimensional Topology", ed. by Matumoto and Morita, Advanced Studies in Pure Mathematics 20 (1992), 1 - 92.
- The fundamental group of almost nonnegatively curved manifolds, Annals of Math. 136 (1992) 253 - 333 (with T.Yamaguchi)
- Morse homotopy, A[∞]-Category, and Floer homologies, in "Proceedings of Garc Workshop on GEOMETRY and TOPOLOGY" ed. by H.J. Kim, Seoul National University (1994), 1 - 102.
- Isometry group of singular spaces, Math. Zeitschrift 216, (1994) 31 44 (with T. Yamaguchi).
- Floer homology for 3-manifolds with boundary -abstract -, in "Topology Geometry and Field theory" ed by Fukaya, Furuta, Khono, Kotchick, World Scientific, Singapore (1994), 1 - 22.
- Morse homotopy and Chern-Simons Perturbation theory, Commun. Math. Phys. 81 (1996) 37 - 90.
- Floer homology of connected sum of homology 3-spheres, Topology 35 (1996) 88 - 136.
- Morse homotopy and its quantization, AMS/IP Studies in Advanced Mathematics 2 1997, 409 - 440.
- 16. Zero-loop open string on cotangent bundle and Morse homotopy. Asian Journal of Mathematics 1 (1998) pp 96 180. (with Y.Oh).
- 17. Anti-Self-Dual equation on 4-manifolds with degenerate metric, Geometric Analysis and Functional Analysis 8 (1998) 466 528.
- Arnold conjecture and Gromov-Witten invariant, Topology 38, 1999, 933 -1048. (with K. Ono).
- 19. Floer homology and Gromov-Witten invariants over Z of general symplectic manifolds, Advanced Studies in Pure Math. 31 (2001) 75 91. (with K.Ono).
- Mirror symmetry of Abelian varieties and multi-theta functions, J. Algebraic Geom. 11 (2002), 393–512.
- Floer homology and mirror symmetry. II. Minimal surfaces, geometric analysis and symplectic geometry (Baltimore, MD, 1999), 31–127, Adv. Stud. Pure Math., 34, Math. Soc. Japan, Tokyo, 2002.
- Multivalued Morse theory, asymptotic analysis and mirror symmetry. Graphs and patterns in mathematics and theoretical physics, 205–278, Proc. Sympos. Pure Math., 73, Amer. Math. Soc., Providence, RI, 2005.
- 23. Lagrangian intersection Floer theory anomaly and obstruction, preprint. (with Y.Oh, H.Ohta, K.Ono).
- 24. Gauge theory and topology, Springer Tokyo 1995 (A book in Japanese.)
- 25. Symplectic geometry Iwanami Shoten 1999 (A book in Japanese.)