**Prizes and Grants**

Zili Li, 18 May, 2016, Delft

**Prize and honour:**

* Noel Goodall Award by the Institution of Mechanical Engineers (IMechE) (2012).

**Prizes won by my PhD students:**

* Young Innovation Award, 2nd place, Rail-Tech 2015 Conference and Exhibition, to my PhD student Meysam Naeimi, for his design of a new wheel-rail contact test rig for rolling contact fatigue testing, 19 March, 2015.
* Innovation Research Award to Maria Molodova for her PhD thesis under my supervision. Awarded by the Dutch Institute of World Class Maintenance, 8 Oct. 2014.
* UIC Young Researchers Award to my PhD student Maider Oregui for her PhD thesis work, 3 December, 2014, UIC (International Union of Railways, with all the major railways of the would being its members), Paris.
* Best student paper award (1st place, to my PhD student Marija Molodova), for the paper by Marija Molodova, Zili Li, Alfredo Nunez and Rolf Dollevoet, *Monitoring the railway infrastructure: Detection of surface defects using wavelets*, presented at the IEEE 16th International Intelligent Transportation Systems Conference, 7 – 9 October, 2013, the Hague, the Netherlands.
* Gouden Apple for Siamand Rahimi and Anthonie Boogaard, at the Masterclass of STW-ProRail research program ExploRail, the STW-ProRail research program, on 17 of Dec. 2012.
* De Jan van Stappen Spoorprijs was awarded to Rolf Dollevoet for his PhD thesis with me as co-promotor: *Design of an anti head check profile based on stress relief*, 2010, University of Twente.
* Best student paper award (to my PhD student X. Zhao), for the paper by Zhao, X., Li, Z., Esveld, C. and Dollevoet, R., *The Dynamic Stress State of the Wheel-Rail Contact*, presented at the 2nd IASME/WSEAS International Conference on Continuum Mechanics, 15-17 May, 2007, Portoroz, Slovenia, 127-133.

**Grants:**

**Remark:** I am running 4 STW and NOW projects: DrTrack, Admire, Prime and Pyramids. The total budget of them is 2.178 m€, of which 1.267 m€ is under my administration. Although I am the main applicant of only one of them (DrTrack), I was the initiator of all the 4.

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| **Scholarship/Grant/ Prize**  **As main/formal applicant** | **Amount in euro’s** | **Directly under my administration** | **Year of award** |
| Li, Z.  Friction in rolling: Mechanism, measurement and control, Research grant from Dutch railway infrastructure manager ProRail | 395,000 | 395,000 | 2015 |
| Li Z.,  Rolling contact fatigue – loading conditions, damage mechanisms, early detection and counter measures. Research grant from Dutch railway infrastructure manager ProRail | 445,000 | 445,000 | 2014 |
| Li Z.,  Rolling contact fatigue – loading conditions, damage mechanisms, early detection and counter measures. Research grant from Dutch railway infrastructure manager ProRail | 445,000 | 445,000 | 2013 |
| Li Z. and Rixen D.  DrTrack – Detection and diagnosis of railway track short wave anomalies. Research grant from Dutch Technology Foundation (STW), covering 2 PhD students at TU Delft.  <http://www.stw.nl/nl/content/drtrack-%E2%80%93-detection-and-diagnosis-railway-track-short-wave-anomalies> | 535,000 | 535,000 | 2012 |
| Li Z.,  Rolling contact fatigue. Research grant from Dutch railway infrastructure manager ProRail. | 405,000 | 405,000 | 2012 |
| Li Z.,  UIC Guideline. Grant from UIC (International Union of Railways) to invite me to write guideline to best practice of squat treatment, based on my research results. | 15,000 | 15,000 | 2011 |
| Li Z.,  Rolling contact fatigue. Research grant from Dutch railway infrastructure manager ProRail. | 430,000 | 430,000 | 2011 |
| Li Z.,  Rail short wave defects. Research grant from Dutch railway infrastructure manager ProRail. | 405,000 | 405,000 | 2010 |
| Li Z.,  Wheel-Rail interaction. Research grant from Dutch railway infrastructure manager ProRail. | 430,000 | 430,000 | 2009 |
| Li Z.,  Control of rolling contact fatigue damages. Research grant from Dutch railway infrastructure manager ProRail. | 435,000 | 435,000 | 2008 |
| Li Z.,  Rolling contact fatigue – Detection by Axle box acceleration, Monitoring and measurement, Profile optimization, Squats analysis, funded by ProRail | 298,000 | 298,000 | 2007 |
| Li Z.,  Research on rolling contact fatigue – correlation analysis and root cause identification, funded by ProRail | 168,000 | 168,000 | 2006 |
| Li Z.,  Controlling rolling contact fatigue – Collaboration with Network Rail of UK, funded by ProRail | 51,000 | 51,000 | 2006 |
| Li Z.,  Controlling rolling contact fatigue, funded by ProRail | 106,000 | 106,000 | 2005 |
| *Subtotal* | 4,563,000 | 4,563,000 |  |
| **Scholarship/Grant/Prize Formal co-applicant** |  |  |  |
| Horizon 2020 RISEN - Rail Infrastructure System Engineering Network, Marie Skłodowska-Curie Actions, Research and Innovation Staff Exchange (RISE)  (Website not yet online), with 16 partners | 1,057,500 | 100,000 | 2016 |
| Horizon 2020 NetiRail-Infra - Needs Tailored Interoperable Railway, with 13 partners  <http://netirail.eu/> | 5,453,658 | 598,151 | 2015 |
| De Schutter B., Teunter R., Klingenberg W., Li Z. and Houben L.,  Pyramids – Multi-party risk management and key performance indicator design at the whole system level. Research grant from Dutch Technology Foundation (STW), covering 3 PhD students, 2 at TU Delft and 1 at Groningen University (one supervised by me).  <http://explorail.verdus.nl/1313> | 662,000 | 212,000 | 2012 |
| Sietsma J., Li Z. and Petrov R.,  Prime – Development of high-performance rail through intelligent metallurgy & engineering  Research grant from Dutch Technology Foundation (STW), covering 2 PhD students at TU Delft (one supervised by me).  <http://www.stw.nl/nl/content/prime-%E2%80%93-development-high-performance-rail-through-intelligent-metallurgy-and-engineering> | 509,000 | 255,000 | 2012 |
| De Schutter B., Li Z., Babuska R. and van den Boom T.,  Admire – Advanced monitoring of intelligent rail infrastructure.  Research grant from Dutch Technology Foundation (STW), covering 2 PhD students at TU Delft (one supervised by me).  <http://www.stw.nl/nl/content/admire-%E2%80%93-advanced-monitoring-and-management-intelligent-rail-infrastructure> | 472,000 | 265,000 | 2012 |
| EC FP7 PMnID*E*A - Predictive Maintenance employing Non-intrusive Inspection & Data Analysis (with 16 partners)  <http://cordis.europa.eu/publication/rcn/13981_en.html> | 3,738,000 | 497,000 | 2009 |
| EC FP6 InnoTrack – Innovative Track Systems (with 36 partners)  <http://www.innotrack.net/article/presentation> | 14,372,000 | 226,000 | 2006 |
| AdRem – Adhesion Remedy for slippery rails, funded jointly by NS and ProRail. Joint project together with University of Twente and Wagningen University, covering 3 PhD students (one supervised by me) | 900,000 | 220,000 | 2006 |
| *Subtotal* | 27,164,158 | 2,373,151 |  |
| *Total* | 31,727,158 | 6,936,151 |  |