

# Young novice drivers – whassup?

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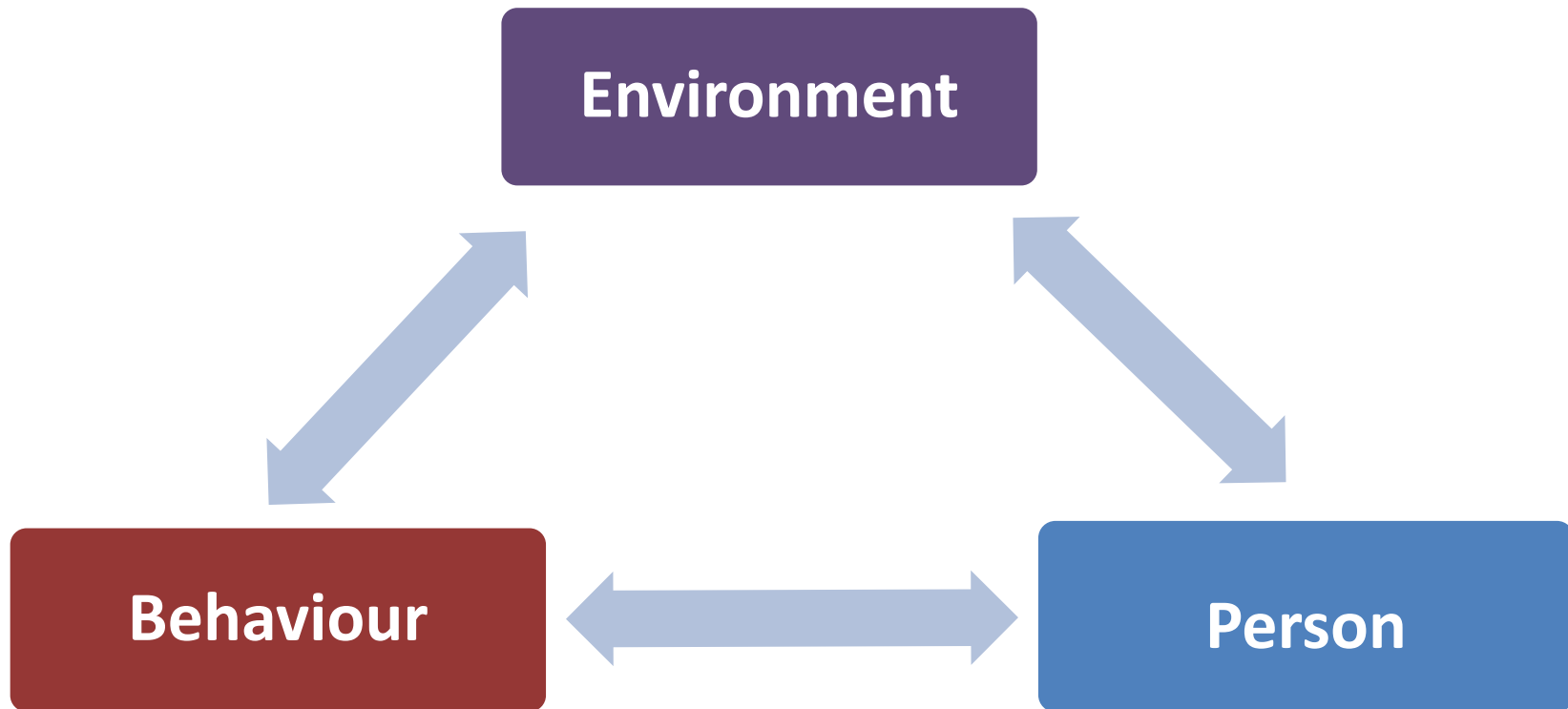
# What's the issue?



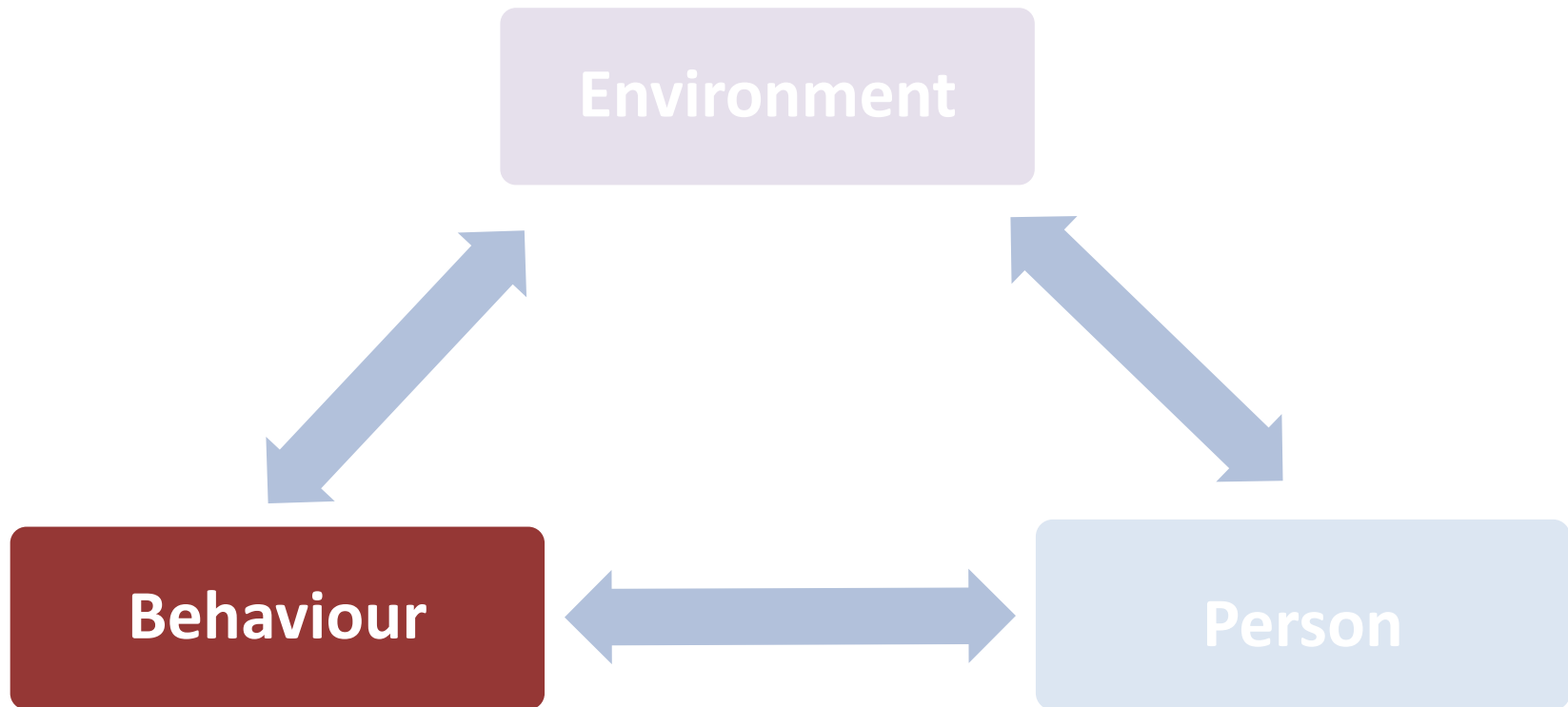
# How have I explored the issue?

- Queensland-wide online surveys
  - 761 tertiary students, 17-25 years, with a Provisional licence
  - 1170 young drivers when passed practical driving assessment (pre-Licence and Learner experiences)
  - 390 young drivers six months after getting Provisional 1 (P1) licence
- Small group interviews, Morayfield Shopping Centre
  - 21 young drivers with Learner or Provisional licence

# Bandura's Reciprocal Determinism Model (RDM)



# Bandura's Reciprocal Determinism Model



# The Behaviour

- No young-driver specific, reliable, self-report instrument which measures behaviour

**Solution:** Develop an instrument which is valid, reliable, able to be used around the world

## Behaviour of Young Novice Drivers Scale (BYNDS)

1. Transient violations – speeding, mobile phones
2. Fixed violations – alcohol, seatbelts
3. Misjudgements – exiting too fast, overtaking
4. Risky exposure – on weekend nights, friends
5. Driver mood – faster if angry

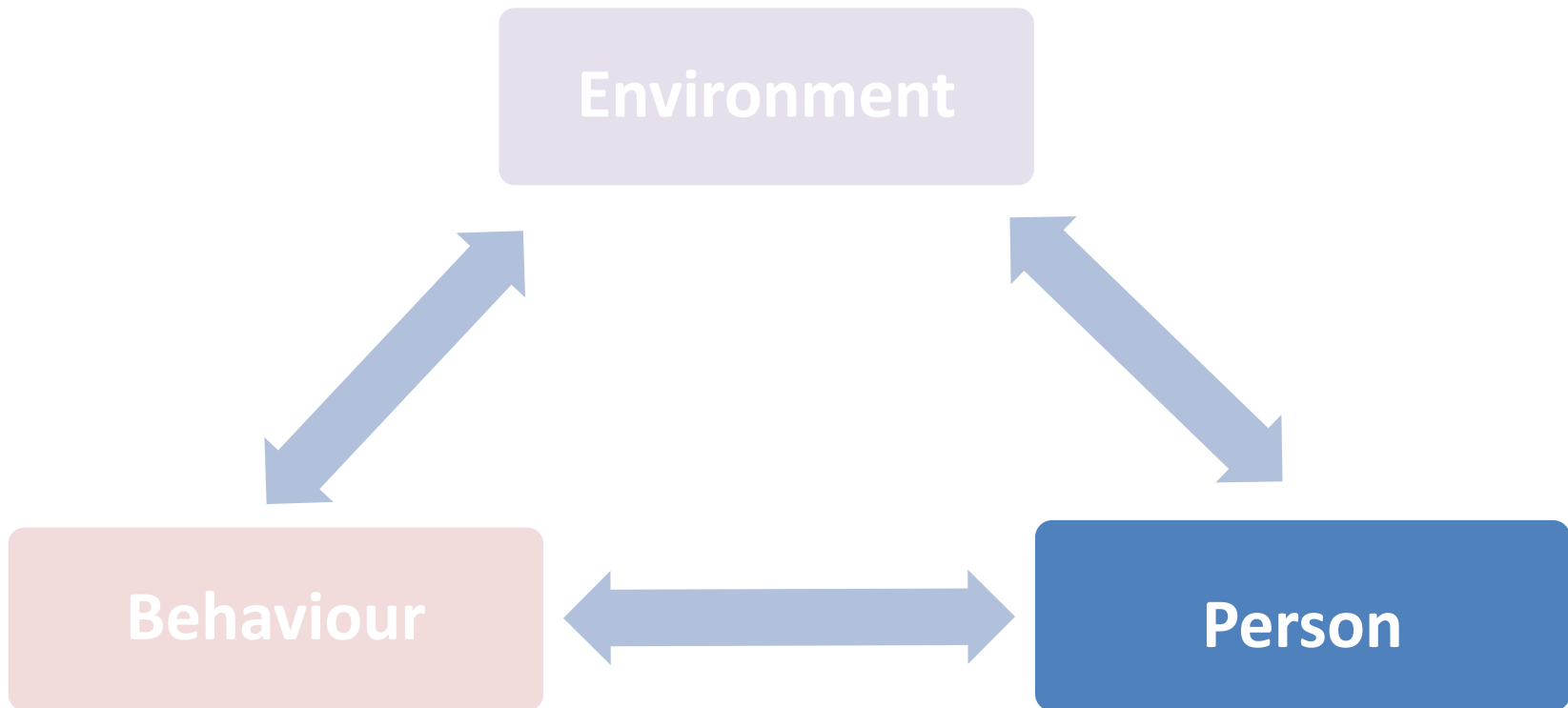


# The Behaviour

- Other behaviours
  - 12% of Learners reported **pre-Licence driving**
  - 11% of Learners reported **driving unsupervised**
  - Driving **tired** reported by 75% of P1 (6 months)
  - 78% of drivers have their **own car** after 6 months
  - **Speeding** (developing unsafe habits?)

	< 10 km/hr	10-20 km/hr	> 20 km/hr
Learners	69%	32%	13%
Provisional 1	80%	50%	24%

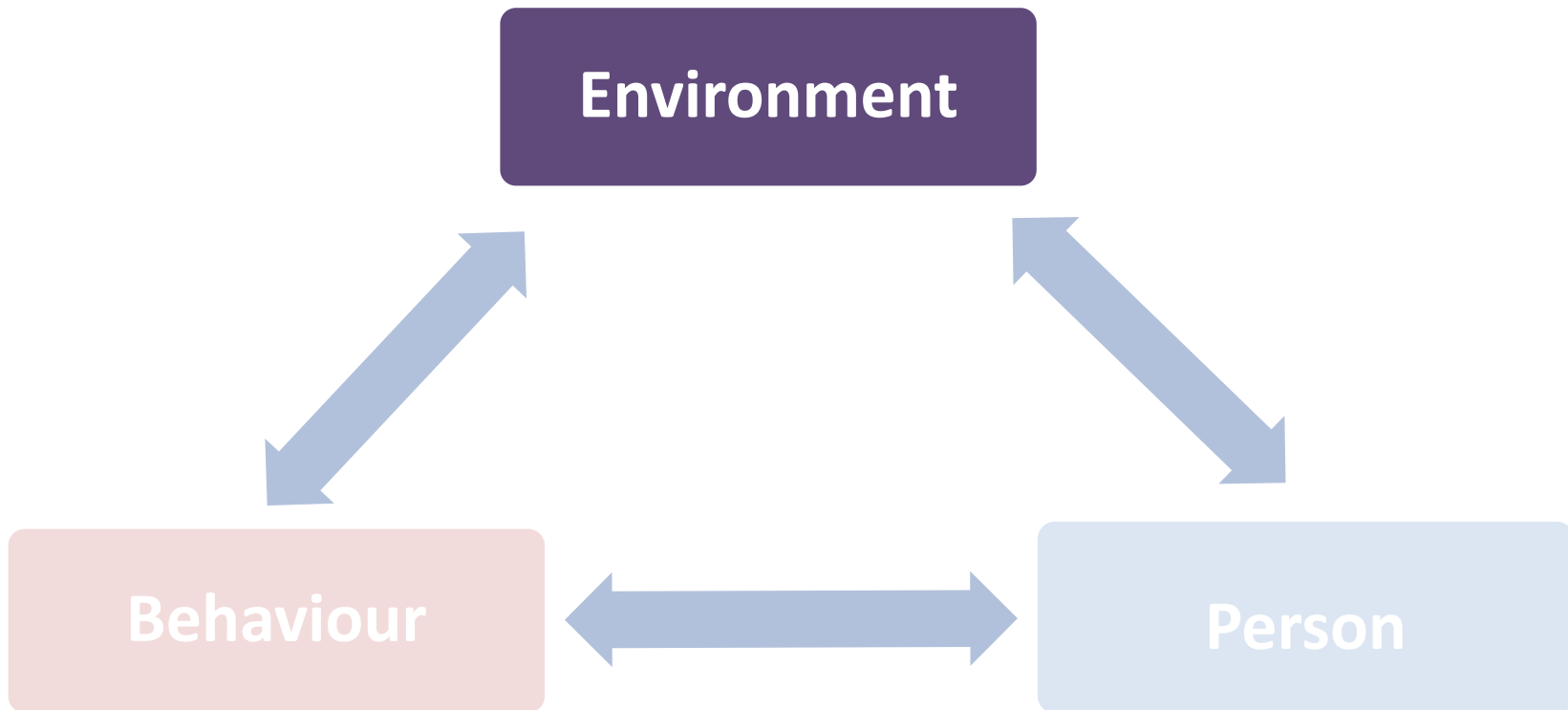
# Bandura's Reciprocal Determinism Model (RDM)



# The Person

- Sociodemographic characteristics of risky drivers
  - Male
  - Younger
  - More crashes in urban areas, rural more Police-avoidance
  - Employed
  - Not studying
  - In a relationship
  - Depressed
  - Anxious
  - High sensation seeking propensity

# Bandura's Reciprocal Determinism Model (RDM)



# The *Structural* Environment

- Graduated driver licensing (GDL)
  - Program changed considerably July 2007
  - What was the impact of these changes?
    - **Practising** more (average now 92 hrs, was 63 hrs)
    - **Mum and Dad supervising most** (was 53 hrs, now 84 hrs)
    - **Longer Learner period** (was 12 mnths, now 16.5 mnths)
    - **Less difficult** to get practice (35% reduced to 23%)
  - BUT 50% males and 60% females **practice right before test**
- 13% identified as **‘problem young drivers’**

# The *Social* Environment

- Parents and peers
  - Models to imitate or ignore
  - Sources of punishments and rewards
    - Dependent upon *outcome* of behaviour: ‘bad’ vs ‘not bad’
- Parents
  - Unlikely to impose additional punishments
  - Some facilitated punishment avoidance
  - Some low-quality supervision of Learner driving
- Peers
  - Likely to encourage and to reward risky behaviour
  - Can effectively punish/ discourage risky behaviour but unlikely to do so (age of friends appeared important)

# Questions?

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# Publications arising from research

**Scott-Parker, B.**, Watson, B., King, M. J., & Hyde, M. K. (in press, paper accepted 22 February 2013). Delaying licensure for two or three years is associated with risky driving behaviour while learning and difficulty becoming licensed. *Transportation Research Record: Journal of the Transportation Research Board of the National Academies*.

**Scott-Parker, B.**, Hyde, M. K., Watson, B., & King, M. J. (2013). Speeding by young novice drivers: What can personal characteristics and psychosocial theory add to our understanding? *Accident Analysis and Prevention*, *50*, 242-250. doi: 10.1016/j.aap.2012.04.010

**Scott-Parker, B.**, Watson, B., King, M. J., & Hyde, M. K. (2013). A further exploration of sensation seeking propensity, reward sensitivity, depression, anxiety and the risky behaviour of young novice drivers in a structural model. *Accident Analysis and Prevention*, *50*, 465-471. doi:10.1016/j.aap.2012.05.027

**Scott-Parker, B.**, & Watson, B. (2013). *Identification of potentially high-risk young drivers*. Report prepared for VicRoads.

**Scott-Parker, B.**, Watson, B., King, M. J., & Hyde, M. K. (2013). Revisiting the concept of the 'problem young driver' within the context of the 'young driver problem'. *Accident Analysis and Prevention*.

**Scott-Parker, B.**, Watson, B., King, M. J., & Hyde, M. K. (2012). Confirmatory factor analysis of the Behaviour of Young Novice Drivers Scale (BYNDS). *Accident Analysis and Prevention*, *49*, 385-391. doi: 10.1016/j.aap.2012.02.021

**Scott-Parker, B.**, Watson, B., King, M. J., & Hyde, M. K. (2012). Young and unlicensed: Risky driving before obtaining a Learner's licence. *Traffic Injury Prevention*, *13*(3), 213-218. doi: 10.1080/15389588.2011.638683

**Scott-Parker, B.**, Watson, B., King, M. J., & Hyde, M. K. (2012). The influence of sensitivity to reward and punishment, propensity for sensation seeking, depression and anxiety on the risk behaviour of novice drivers: A path model. *British Journal of Psychology*, *103*(2), 248-267. doi: 10.1111/j.2044-8295.2011.02069.x

**Scott-Parker, B.**, Watson, B., King, M. J., & Hyde, M. K. (2012). "They're lunatics on the road": Exploring the normative influences of parents, friends, and police on young novice's risky driving decisions. *Safety Science*, *50*, 1917-1928. doi: 10.1016/j.ssci.2012.05.014



# Publications arising from research

**Scott-Parker, B.,** Watson, B., King, M. J., & Hyde, M. K. (2012). Young, inexperienced and on the road – Do novice drivers comply with road rules? *Transportation Research Record: Journal of the Transportation Research Board of the National Academies. Transportation Research Record: Journal of the Transportation Research Board, No. 2318*, Transportation Research Board of the National Academies, Washington, D.C., 2012, pp. 98–106. doi: 10.3141/2318-12

**Scott-Parker, B.,** Bates, L., Watson, B., King, M. J., & Hyde, M. K. (2011). The impact of changes to the graduated driver licensing program in Queensland, Australia on the experiences of Learner drivers. *Accident Analysis and Prevention, 43(4), 1301-1308*. doi: 10.1016/j.app.2011.01.012

**Scott-Parker, B.,** Watson, B., King, M. J., & Hyde, M. K. (2011). The psychological distress of the young driver: A brief report. *Injury Prevention, 17(4), 275-277*. doi: 10.1136/ip.2010.031328

**Scott-Parker, B.,** Watson, B., King, M. J., & Hyde, M. K. (2011). Mileage, car ownership, experience of punishment avoidance and the risky driving of young drivers. *Traffic Injury Prevention, 12(6), 559-567*. doi: 10.1080/15389588.2011.621000

**Scott-Parker, B.,** Watson, B., & King, M. J. (2010). The risky behaviour of young drivers: Developing a measurement tool. *Proceedings of the 24<sup>th</sup> Canadian Multidisciplinary Road Safety Conference, Niagara Falls, Canada, June 6-9, 2010*.

**Scott-Parker, B.,** Watson, B., King, M. J., & Hyde, M. K. (Response to Reviewers submitted 1 March 2013). The risky behaviour of young novice drivers: Transference of risk from parents and the Learner licence phase. *Accident Analysis and Prevention*.

# Publications arising from research

**Scott-Parker, B.**, Pallant, J., Watson, B., & King, M. J. (in preparation). The Behaviour of Young Novice Drivers Scale: Rasch analysis. Manuscript in preparation for *Transportation Research Part F: Traffic Psychology and Behaviour*.

**Scott-Parker, B.**, Pallant, J., Watson, B., & King, M. J. (in preparation). Kessler's Psychological Distress Scale: Rasch analysis of the K10 and K6. Manuscript in preparation for *Psychological Medicine*.

**Scott-Parker, B.**, Watson, B., & King, M. J. (in preparation). Development and application of the PsychoSocial Purpose Scale (PSPS). Manuscript in preparation for *Transportation Research Part F: Traffic Psychology and Behaviour*.

**Scott-Parker, B.**, Watson, B., & King, M. J. (Under review). "If they say go faster or something I'll probably go faster" - Peer influence upon the risky driving behaviour of young novices. Manuscript in preparation for the non-peer-reviewed *Australasian Road Safety, Research, Policing and Education Conference*, Brisbane August 2013. To be submitted for peer-review at *Transportation Research Part F: Traffic Psychology and Behaviour*.

**Scott-Parker, B.**, Watson, B., King, M. J., & Hyde, M. K. (Under review). "I drove after drinking alcohol" and other risky driving behaviours reported by young novice drivers." Manuscript in preparation for the non-peer-reviewed *International Council on Alcohol, Drugs, and Traffic Safety Conference* August 2013. To be submitted for peer review at *Transportation Research Part F: Traffic Psychology and Behaviour*.

**Scott-Parker, B.**, Watson, B., King, M. J., & Hyde, M. K. (Under review). "My mother would freak out" – Understanding the influence of parents on the risky behaviour of their young novice drivers. Manuscript in preparation for the non-peer-reviewed *Australasian Road Safety, Research, Policing and Education Conference*, Brisbane August 2013. To be submitted for peer-review at *Transportation Research Part F: Traffic Psychology and Behaviour*.

**Scott-Parker, B.**, Watson, B., King, M. J., & Hyde, M. K. (Under review). Punishment avoidance and intentional risky driving behaviour: What are the implications for 'getting away with it'? Chapter in preparation for a special book "*Psychology of Punishment: New Research*", published by Nova Publishers.