Who we are

• Org.: National Research Council of Canada (NRC)
• Lead Investigator: Dr. Roland Kuhn
• Current Research Team Members:

- Boxing Chen
- Colin Cherry
- George Foster
- Pierre Isabelle
- Roland Kuhn
- Jackie Lo
- Michel Simard

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<tr>
<th>Colin Cherry</th>
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<tr>
<td>Cyril Goutte</td>
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<td>Svetlana Kirichenko</td>
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<td>Saif Mohammad</td>
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<td>Jiang Su</td>
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<td>Xiodan Zhu</td>
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MT

IE, IR, Semantics, Sentiment, Trend analysis …
• Involved in MT/NLP research for several decades.
• Ongoing MT research:
  – Help push the current NMT revolution via faster training of NNs (speeding up softmax), advanced data selection, etc.
  – MT for social media (e.g., Arabic tweets).
  – Language pairs: Arabic-English, Arabic-French, Chinese-English, English-French, Russian-English, etc.
  – Support existing commercial deployment of PORTAGE SMT.
• Other ongoing NLP research:
  – IE, IR/CLIR; text classification and summarization; sentiment & emotion analysis; trend analysis.
  – Spans academic, industrial and government interests.
Qualifications/Capabilities

• Deep expertise SMT/NMT
  – DARPA projects: participants in GALE, BOLT, QCR.
  – Recently: DNN capabilities; statistical tie for first place in WMT 2016 (Russian > English news) with hybrid DNN-phrase based system.
  – Experts on MT post-editing (e.g., invented automatic post-editing)

• History of successful and consistent delivery:
  – Strong showing in international evaluations in MT (NIST, WMT, etc.), IE (I²B²), sentiment (SemEval), text classification (DSL), etc.
  – Commercially deployed (MT, summarization)
  – Govt. of Canada contracts: in MT (Translation Bureau, CSEC, Courts Admin Service) and other NLP areas (Defence, Health Canada).
  – US govt.: NVTC contract (text classification for MAT)
Eventual Involvement in MATERIAL

• Join forces with other top labs to advance the state of MT, CLIR and related technologies.
• Help push DNN revolution.
• NRC is not involved in speech technologies:
  – Wishes to work with suitable partners for testing our technologies in a variety of settings including speech I/O.
• NRC is comfortable in working in tightly managed leading-edge projects (extensive DARPA experience).
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